

Green Power Tomorrow Participation



To qualify for our Clean Power Partner program, customers generating solar power must purchase renewable energy from MGE's Green Power Tomorrow program at a monthly level of at least 100% of the solar energy produced. That means even though you are selling your solar-generated electricity to MGE customers, you will always be supporting renewable energy generation through the electricity you buy from MGE.

Your average electricity use per month is _____ kWh.

Use the link at mge.com/averagecost to determine your average monthly electricity use.

Your estimated monthly solar electricity production is _____ kWh.

See Section 6b of your Application for your annual solar electricity production. Simply divide by 12 for your monthly production.

Indicate the amount of green power you wish to purchase below. The cost is \$0.01 per kWh extra.

_____ % of my electricity use at this address. This amount is greater or equal to the electricity generated from my solar system. (Residential customers can select either 50% or 100%. Business customers can choose any whole percent: 1, 5, 22, 75, etc., up to 100%.)

_____ kWh each month. This amount is greater or equal to the average monthly electricity generated from my solar system, but does not exceed my total average electricity use. (Customers must select multiples of 300 kWh: 300, 600, 900, etc.)

MGE will monitor your green power purchase and your solar electricity sales to MGE to assure they meet program requirements. MGE will contact you if any adjustments are needed.

Check here if you would like MGE to credit your account at the end of each year the difference between your green power purchase and the amount of electricity you sell to MGE. This credit would be one cent per kWh and only applies if your green power purchase is greater than the amount of solar electricity generated.

Name: _____ E-mail address*: _____

Address: _____

What is Green Power Tomorrow?

This is MGE's expanded renewable energy program available for customers who wish to purchase renewable energy from wind and solar for one cent extra per kilowatt-hour.

The renewable energy comes from new wind farms in Wisconsin and Iowa and from new local solar photovoltaic systems owned by MGE customers who have chosen to sell all their solar energy back to MGE through the Clean Power Partner program.

*I understand MGE will use this e-mail address to communicate messages about Green Power Tomorrow or Clean Power Partner.

Clean Power Partner Agreement

(PV Generation Interconnection Agreement 10 kW or Less)



This Clean Power Partner Agreement (the "Agreement") is made and entered into this _____ day of _____, 20____, by and between Madison Gas and Electric Company, hereinafter called "MGE," and _____, hereinafter called the "Applicant." MGE and the Applicant are hereinafter collectively referred to as the "Parties" and individually as "Party."

Recitals

- A. Applicant wishes to participate in MGE's Clean Power Partner Program. Through this program, Applicant will do the following:
 - Install a photovoltaic generation (PVG) facility, including the related interconnection equipment (the "PVG Facility"), with a minimum capacity of 1 kW DC and a maximum capacity of 10 kW DC and sell to MGE the total electrical energy production of the system.
 - Sign up for Green Power Tomorrow, a renewable energy program offered by MGE in which participants must purchase renewable energy at a monthly level equal to at least 100% of Applicant's total PVG energy production.
- B. MGE is the owner of the electrical distribution system serving Applicant's property and wishes to enroll Applicant in the Clean Power Partner Program.
- C. Applicant has attached or sent previously to MGE a completed Green Power Tomorrow enrollment form as well as a completed Standard Distributed Generation Application Form (Generation 20 kW or less), PSC Form 6027 (the "Application"), a line diagram of the proposed PVG Facility and a proof of insurance certificate.
- D. The purpose of this Agreement is to clarify the obligations and responsibilities of Applicant in the Clean Power Partner Program and to reserve Applicant's place in the Experimental Photovoltaic Parallel Generation program set forth in the Pg-4 tariff approved by the Public Service Commission of Wisconsin.

Now therefore, in consideration of the foregoing and for good and valuable consideration, I agree to participate in the Clean Power Partner Program under the following conditions:

1. I understand the term "I" as used in this Agreement shall be construed to mean "we" and the term "me" or "my" as used in this Agreement shall be construed to mean "us" or "our," respectively, when appropriate to refer to more than one participant or owner, in which case the singular tense shall be construed as being plural. I understand that when appropriate any singular term in this Agreement shall be deemed to include the plural, and any plural term the singular.
2. I understand that in order to participate in the Clean Power Partner Program, I must be a retail electric customer of MGE and also take service under one of the renewable energy program tariffs (RWE-1 or BWE-1) at least at the level of AC energy produced by my PVG Facility on an annual basis. Copies of the RWE-1, BWE-1 and Pg 4 tariffs are available on MGE's Web site at www.mge.com.

(Continued next page.)

Page 2 - Clean Power Partner Agreement (PV Generation Interconnection Agreement 10 kW or Less)

3. I understand that MGE must understand the operational specifications of the PVG Facility in order to ensure that it is in compliance with MGE requirements. The following information reflects the specifications of my PVG Facility:

PV Module Manufacturer: _____

Model No.: _____

Nameplate DC kW of Module: _____

No. of Modules: _____

Total DC kW of Array: _____

4. I understand that this Agreement will become effective as of the date that MGE accepts this Agreement, as written below. I understand that I shall have twelve (12) months from the date of acceptance of this Agreement to interconnect and deliver energy to MGE based on the terms set forth in the Pg-4 tariff. This Agreement will remain in effect for ten (10) years, binding on successors and heirs, after the date the PVG Facility is interconnected, unless sooner terminated under the provisions in Wisconsin Administrative Code, Chapter PSC 119, including:
- (a) Upon Applicant's delivery of 30 days' written notice to MGE;
 - (b) Upon the mutual written agreement of the parties at any time; or
 - (c) Upon MGE's notice to Applicant that it has determined, in its sole discretion, that any of the following conditions has occurred:
 - i. Noncompliance with any technical or contractual requirements;
 - ii. Distribution system emergency;
 - iii. Routine maintenance, repairs and modifications, but only for a reasonable length of time necessary to perform the required work upon reasonable notice.
5. I understand that interconnection of the PVG Facility to MGE's distribution system requires prior approval and the execution of the Distributed Generation Interconnection Agreement (20 kW or less), PSC Form 6029, available from the Public Service Commission of Wisconsin. If a PVG Facility is connected to MGE's distribution system without MGE approval, MGE reserves the right to disconnect the PVG Facility immediately.
6. I understand that the purchase, installation, operation, maintenance, repair or replacement of my PVG Facility and all interconnection and safety equipment required to connect my PVG Facility with MGE's electric system will be my responsibility, provided at my cost and subject to all of the following requirements:
- (a) All interconnection and safety equipment must be listed by the Underwriters Laboratories (UL) or Electrical Testing Laboratories to the appropriate UL standards for grid-connected terrestrial power systems. All inverters must carry the UL 1741 label or meet the operating limits defined in PSC 119.
 - (b) I understand that I must furnish and install a two-meter socket or two-meter system to accommodate the customer generation and billing meters. The meter base must be located at the same vertical level as the billing meter and within one vertical foot or located as necessary to provide easy access to the billing and generation meter simultaneously.
 - (c) All PVG Facilities must be manufactured (if a packaged system) and installed in compliance with all requirements of the latest edition of the National Electric Code (American National Standards Institute/National Fire Protection Association-70).

(Continued next page.)

Page 3 - Clean Power Partner Agreement (PV Generation Interconnection Agreement 10 kW or Less)

- (d) All installations must be permitted as required by law, certified by a licensed electrician and pass any applicable code inspections.
 - (e) All installations must comply with PSC 119 for interconnecting distributed generation facilities.
 - (f) PVG Facilities with backup battery systems are prohibited from inclusion in the Clean Power Partner Program.
7. I agree to give MGE, or its representatives, access to the site of the PVG Facility installation to conduct any reviews, inspections or testing required or allowed under PSC 119 for the purpose of ensuring the continued safe and satisfactory operation, but that such inspections shall not relieve me from my obligation to maintain the PVG Facility in a safe and satisfactory operating condition.
 8. I understand that any electric service provided to me will continue to be subject to all applicable rules, regulations and standard policies of MGE.
 9. I understand that MGE will have title to all renewable energy credits and benefits, emissions allowances or other renewable energy, air emissions or environmental benefits for which the PVG Facility qualifies under any existing or future applicable law relating to renewable energy projects. This includes, but is not limited to, any and all local, state, federal and/or international renewable resource credits, emissions credits and any other environmentally related credits that are, or in the future will be, recognized by any governmental authority and attributed to the production of energy from renewable power.
 10. The purpose of this Agreement is to set forth and clarify provisions of PSC 119 and the Pg-4 tariff that are binding on the Parties. Nothing in this Agreement is intended to contradict the provisions of the Wisconsin Administrative Code. In the event of any disagreement over the meaning of a provision contained in this Agreement vis-à-vis the provisions of PSC 119 or the Pg-4 tariff, PSC 119 and the Pg-4 tariff shall govern.
 11. I understand that each of the parties will indemnify and save harmless the other party against any and all damages to persons or property occasioned, without the negligence of such other party, by the maintenance and operation by such parties of their respective lines and other electrical equipment.
 12. Notices given under this Agreement shall be deemed to have been duly delivered if hand delivered or sent by United States Certified Mail, return receipt requested, postage prepaid, to:

If to me:

If to MGE:

Jeff Ford
Madison Gas and Electric Company
PO Box 1231
Madison, WI 53701-1231

The above-listed names and addresses of either party may be changed by written notification to the other.

13. I may not assign this Agreement in whole or in part without the prior written consent of MGE, which consent will not be unreasonably withheld. If ownership of the site of the installation of the PVG Facility is transferred (or my tenancy in the site is terminated), I will notify MGE as soon as possible. MGE and I will agree upon the date on which this Agreement is either terminated or assigned to the subsequent owner or tenant for the remainder of the term of this Agreement. If the subsequent owner or tenant is willing and able to assume the obligations under this Agreement, MGE shall not withhold consent to the assignment.

(Continued next page.)

Page 4 - Clean Power Partner Agreement (PV Generation Interconnection Agreement 10 kW or Less)

14. I understand that if I believe this Agreement or any requirement hereunder is unreasonable, I may appeal this matter to the Public Service Commission of Wisconsin.

If you are in agreement with the terms and conditions stated above, please (1) sign your name, state your address and provide the rated output of your system below; and (2) forward the Agreement to the MGE representative designated in paragraph 12.

Applicant

Address of Installation of PVG Site

If Applicant is not the owner of the residence or business, the owner must also sign this Agreement as set forth below:

I am the owner of the residence or business in which the generation meter will be installed. I have had the program explained to me, and I give my permission for the review of the interconnection for the PVG Facility at my property. I will permit use of the PVG Facility in the program as provided above. I will cooperate with the other parties participating in the program as set out in this Agreement.

Owner or Resident

To be completed by MGE:

Accepted and agreed to this day of _____, 20____

MADISON GAS AND ELECTRIC COMPANY

By: _____

Title: _____

Attachments to this Clean Power Partner Agreement:

- (1) Completed Green Power Tomorrow Enrollment Form
- (2) Line Drawing
- (3) Proof of Insurance
- (4) Standard Distributed Generation Application Form (Generation 20 kW or less) (PSC Form 6027)



Standard Distributed Generation Application Form (Generation 20 kW or less)

Public Service Commission of Wisconsin
P.O. Box 7854
Madison, WI 53707-7854

6027 (12/01/05)

Distributed By

Name and Address

Supplied By

Name and Address

Public Service Commission of Wisconsin
P. O. Box 7854
Madison, WI 53707-7854

1. Contact Information -- The applicant is the party that is legally responsible for the generating system

Applicant's Last Name: _____ First: _____ Middle: _____

Applicant's Mailing Address:

Phone Number: _____ E-mail Address: _____

Emergency Contact Numbers for Responsible Party

Day Phone: _____ Evening Phone: _____ Weekend Phone: _____

2. Location of the Generation System

Street Address:

Latitude - Longitude (optional): _____ County: _____

(i.e. 49° 32' 06" N -- 91° 64' 18" W)

3. Electric Service Account Number

4. Applicant's Ownership Interest in the Generation System

Owner Co-owner Lease Other _____

5. Primary Intent of the Generation System

Onsite use of power, or net energy billing Commercial power sales to third party

6. Electricity Use, Production and Purchases

- a. Anticipated annual electricity consumption of the facility or site: _____ (kWh)/yr.
- b. Anticipated annual electricity production of the generation system: _____ (kWh)/yr.
- c. Anticipated annual electricity purchases (i.e., (a) - (b)) _____ (kWh)/yr.*

* Value will be negative if there are net sales to the Public Utility.

7. Installing Contractor Information

Contractor's Last Name: _____ First: _____ Middle: _____

Name of Firm: _____

Phone Number: _____ E-mail Address: _____

Contractor's Mailing Address:

8. Requested In-Service Date

9. Provide One-Line Schematic Diagram of the System:

Schematic is Attached Number of Pages: _____

10. Generator/Inverter Information

Manufacturer: _____ Model No.: _____

Version No.: _____ Serial No.: _____

Generation Type (select one): Single Phase Three Phase

Generation Type (select one): Synchronous Induction Inverter Other _____

Name Plate AC Ratings (select one): _____ kW _____ kVA _____ volts

Primary Energy Source: _____

Note: If there is more than one generator and/or inverter, attach an additional sheet describing each.

11. Site Plan Showing Location of the External Disconnect Switch (attach additional sheets as needed)

12. Liability Insurance

Carrier: _____ Limits: _____

Agent Name: _____ Phone Number: _____

The Applicant, (Site Owner or Operator, if different) shall provide a Certificate of Insurance, both demonstrating that this liability insurance is in place.

13. Design Requirements

- a. Has the proposed distributed generation paralleling equipment been certified? Yes No
- b. If not certified, does the proposed distributed generator meet the operating limits defined in Wis. Admin. Code chapter PSC 119? Yes No

For items 13(a) and 13(b), if your answer is yes, please furnish details (e.g., copies of manufacturer's specifications). If you do not know the answer, it is recommended you contact the equipment manufacturer for the answer and provide the same with the completed application.

14. Other Comments, Specification and Exceptions (attach additional sheets if needed)

15. Applicant and Installer Signature

To the best of my knowledge, all the information provided in this Application Form is complete and correct.

Applicant Signature: _____ Date: _____

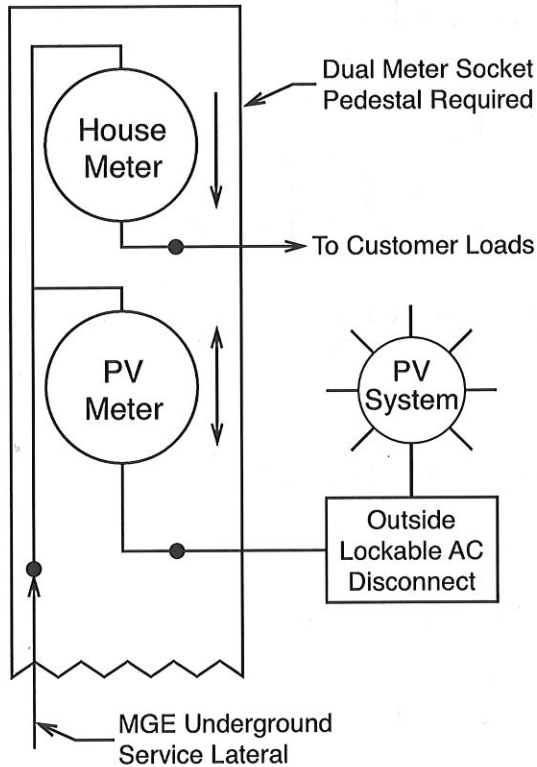
Installer Signature: _____ Date: _____

Clean Power Partner Interconnection Metering Options (Rate Class Pg-4)

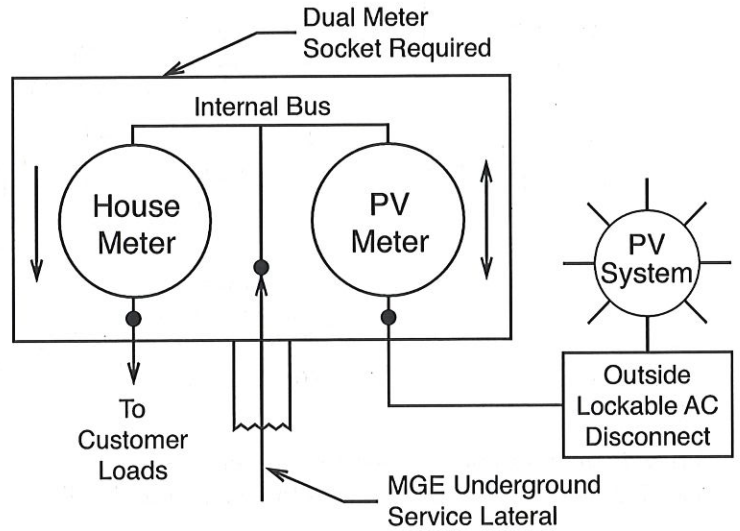


Residential Service

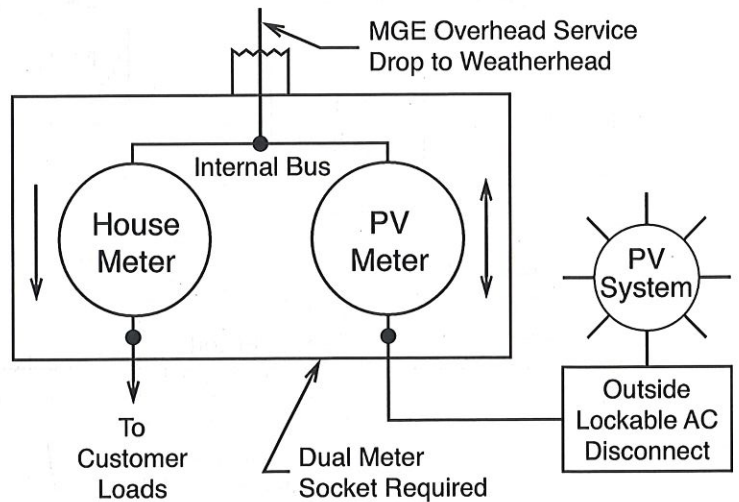
Underground source with pedestal socket



Underground source with horizontal meter socket



Overhead source with horizontal meter socket



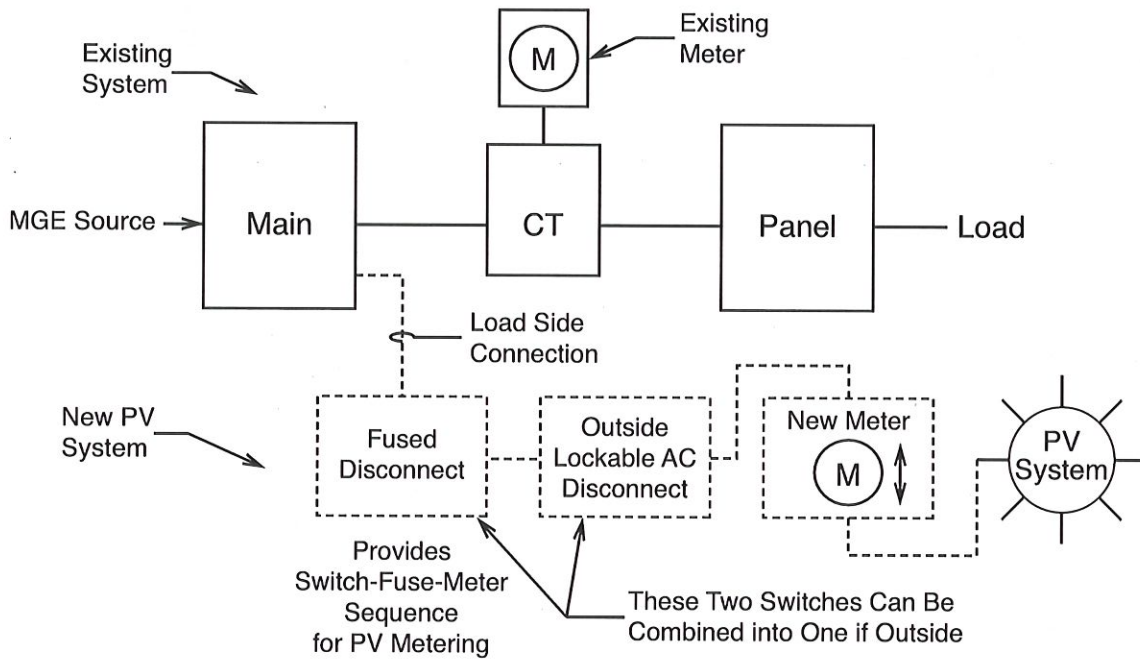
Notes:

- 1) Installing the dual meter socket will require a utility outage

(continued on reverse)

Commercial Service

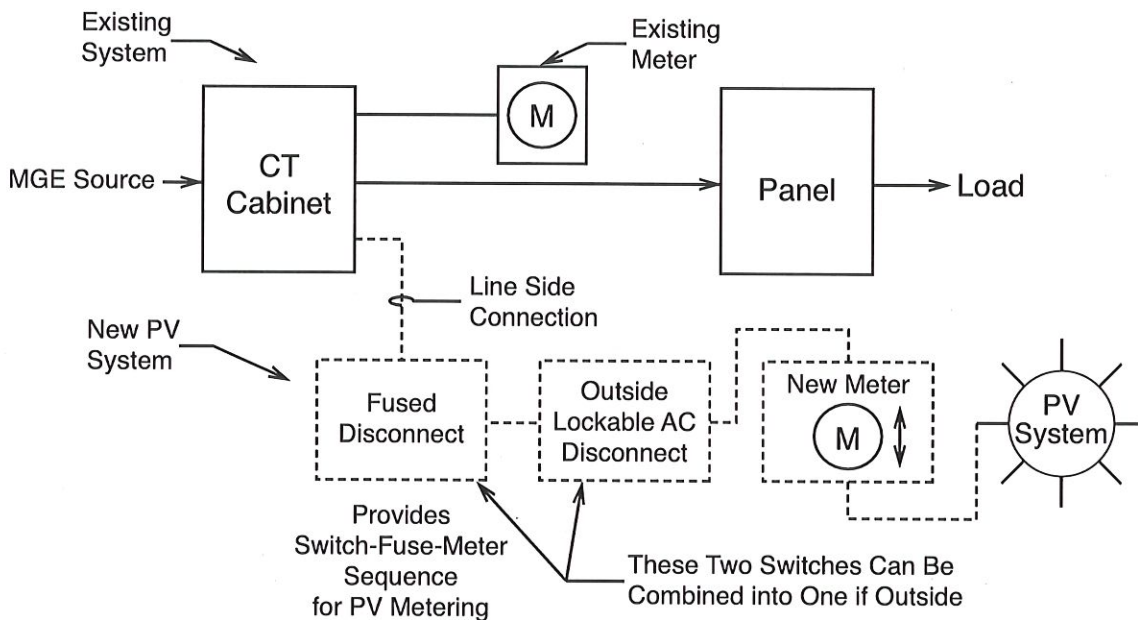
With existing cold sequence metering (switch-fuse-meter)



Notes:

- 1) New PV meter to be near existing meter
- 2) MGE will provide a site visit with PV installer to detail interconnection point in existing main

With existing hot sequence metering (meter-switch-fuse)



Notes:

- 1) Connection at CT cabinet will require a utility outage
- 2) New PV meter to be near existing meter
- 3) MGE will provide a site visit with PV installer to detail interconnection point in existing main
- 4) Six switch rule may apply

MADISON GAS AND ELECTRIC COMPANY**ELECTRIC VOLUME 2**

Experimental Photovoltaic Parallel Generation	Rate Schedule Pg-4
Effective in: All territory served.	
<p>AVAILABILITY</p> <p>Available to customers in good standing of the Company with their own photovoltaic (PV) electric generation facilities who wish to sell the energy generated by their facility to the Company. Eligibility for this experimental tariff is limited to customers who have had a meter set date for their installation of March 6, 2007, or later.</p> <p>Customers must be a retail electric customer of the Company and also take service under one of the renewable energy programs (Rate Schedule RWE-1 or BWE-1) at least at the level of AC energy produced by the customer's PV system on an annual basis.</p> <p>Participation in this experimental tariff will be limited to 1,000 kW DC of nameplate customer PV generation, to be filled on a first-come, first-serve basis as determined by an interconnection agreement for the installation signed by both the customer and the Company. Minimum installation size is 1-kW DC and maximum installation size is 10-kW DC.</p> <p>RATE</p> <p>The customer will receive a monthly credit of \$0.25/kWh AC for PV energy sold to the Company.</p> <p>SERVICE COMPATIBILITY</p> <p>The customer must generate electric power at the same characteristic, voltage, and frequency as the customer receives service from the Company without creating an undue imbalance in the system and will be subject to the same electric service rules as are the general service customers of the Company.</p> <p>Safety of the physical well-being of all persons will be paramount under all considerations and aspects of the construction, operation, and maintenance of generating equipment operated in parallel with the Company's system.</p>	
Issued: May 11, 2009	Next Page is Sheet No. E 56.01
<p>Effective: May 12, 2009</p> <p>PSCW Authorization: By e-mail dated May 11, 2009; File No. 3270.</p>	

MADISON GAS AND ELECTRIC COMPANY

ELECTRIC VOLUME 2

Experimental Photovoltaic Parallel Generation	Rate Schedule Pg-4
Effective in: All territory served.	
<p>METERING AND SERVICE FACILITIES</p> <p>The customer will pay for the cost of rebuilding any Company facilities required to adequately accommodate the parallel generation system and will provide proof of compliance with all applicable local, state, and national electrical and safety codes in writing. These costs may be paid by the customer over a time period not to exceed 24 months from billing by the Company. A finance charge will be added to all amounts not paid within 30 days of billing.</p> <p>Two utility meters are required for this program and provided by the Company. The customer must provide a suitable two meter socket that meets all codes and standards for grid-connected terrestrial power systems.</p> <p>INTERCONNECTION FACILITIES</p> <p>The customer will furnish, install, operate, and maintain facilities such as manual lockable disconnect(s), relays, switches, synchronizing equipment, monitoring equipment, a two-meter socket for the customer generation and billing meters, and control and protective devices designated by the Company as suitable for parallel operation with the Company system. Such facilities and schemes will be reviewed and approved by the Company prior to interconnection. Interconnection equipment designed to isolate the customer's generation from the Company's system will be accessible at all times to authorized Company personnel. All other equipment will be accessible to the Company periodically for routine testing.</p> <p>Customer generation equipment will be of such design as to prevent undesirable effects upon the operation of standard services or equipment of the Company, its customers, or other utilities or agencies (for example, telephone, radio, or television interference).</p> <p>In all respects, the generation equipment and its connection to the Company's system will conform to the guidelines and interconnection rules in Wisconsin Administrative Code 119.04.</p> <p>CONTRACT</p> <p>The Company will require a ten-year contract specifying technical and operating aspects of the PV system, as specified in the "PV Generation Interconnection Agreement (10-kW DC or less)". The effective date of this agreement will be the date that the Company signs this agreement. The customer has 12 months from the effective date of this agreement to interconnect and deliver energy to the Company.</p> <p>Customers have the right to appeal to the PSCW if they believe the contract required by the Company is unreasonable.</p>	
Issued: December 27, 2007	Next Page is Sheet No. E 56.02
<p>Effective: January 1, 2008</p> <p>PSCW Authorization: By Order in Docket 3270-UR-115 dated December 14, 2007.</p>	

MADISON GAS AND ELECTRIC COMPANY**ELECTRIC VOLUME 2**

Experimental Photovoltaic Parallel Generation	Rate Schedule Pg-4
Effective in: All territory served.	
<p>LIABILITY OF THE PARTIES</p> <p>Customer will secure liability insurance that provides protection against claims for damages resulting from (i) bodily injury, including wrongful death, and (ii) property damage arising out of customer's ownership and/or operation of the facility. The limits of the policy will be at least \$300,000 per occurrence or prove financial responsibility by another method acceptable and approved in writing by the Company. The failure of the customer or the Company to enforce the minimum levels of insurance does not relieve the customer from maintaining such levels of insurance or relieve the customer of any liability. The customer will provide the Company with a certificate of insurance containing a minimum 30-day notice of cancellation prior to execution of the agreement.</p> <p>Each of the parties will indemnify and save harmless the other party against any and all damages to persons or property occasioned, without the negligence of such other party, by the maintenance and operation by such parties of their respective lines and other electrical equipment.</p> <p>ENERGY CREDITS</p> <p>All renewable energy credits and benefits, emissions allowances, or other renewable energy, air emissions, or environmental benefits for which the PV generation project qualifies under any existing or future applicable law relating to renewable energy projects will be the property of the Company.</p>	
Issued: December 27, 2007	Next Page is Sheet No. E 57
<p>Effective: January 1, 2008</p> <p>PSCW Authorization: By Order in Docket 3270-UR-115 dated December 14, 2007.</p>	



BIOMASS



SOLAR



WIND

A commitment to clean, abundant renewable energy is a commitment to building a better future for Wisconsin. To help you make that commitment, Focus on Energy offers financial incentives and grants to help offset the costs of installing or investigating renewable energy systems. Our goal is to increase the number of renewable energy systems at work across Wisconsin.

To be eligible for these incentives and grants, your home, business or organization must purchase electricity or natural gas from a Wisconsin utility participating in the Focus on Energy Program. Eligibility information is available at focusonenergy.com/utilities or by calling the Information Center at 800.762.7077.

RESIDENTIAL Site Assessment Program

The Site Assessment Program is designed to provide prospective solar and wind energy system owners with site-specific information on how renewable energy systems can help meet their energy needs. This assessment includes a site visit by an expert as well as a detailed report of the findings. A site assessment is encouraged for all projects seeking Focus Cash-Back Rewards; it is required when applying for a wind energy reward.

A residential renewable energy site assessment typically costs \$300 to \$500. Homeowners located in the Focus on Energy territory can receive this service by paying just 50 percent of the cost; Focus on Energy pays the remaining 50 percent.

BUSINESS Site Assessment Program

Site assessments are designed to give business owners site-specific information about how solar electric, solar thermal or wind electric

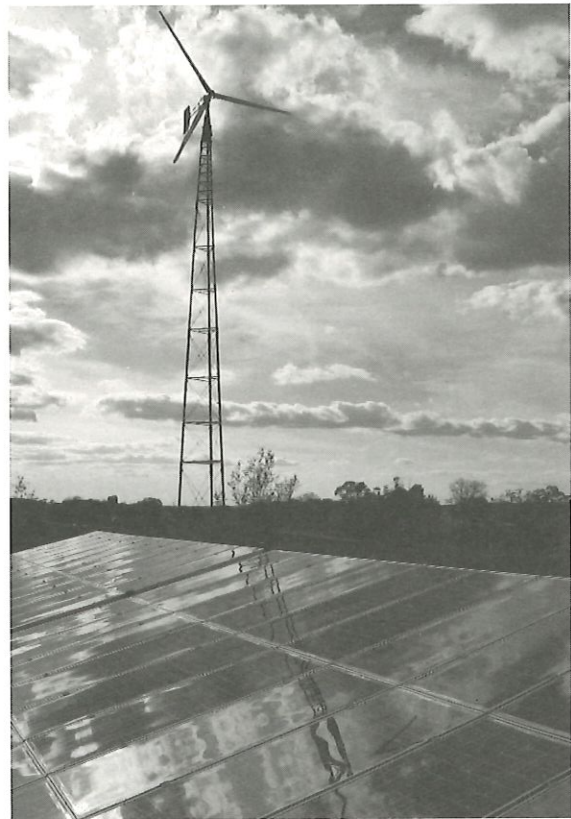


PHOTO COURTESY OF LAKE MICHIGAN WIND AND SUN

Marlin Dunham of Burlington, WI, employs both wind and solar energy at his site.

systems can help meet their energy needs. A facility site assessment typically costs \$400 to \$600 for one technology. Businesses located in the Focus on Energy territory can receive 50 percent off a solar commercial site assessment. In addition, Focus will pay 100 percent of the site assessment costs for a wind electric system, provided the customer installs the system and applies for a Cash-Back Reward or Implementation Grant within two years of the site assessment.

Business Skills Scholarships

Awards are available for a renewable energy businessperson to attend classes and tests that lead to certification in a renewable energy field. For details visit focusonenergy.com/reincentives.

Contact Focus on EnergySM to learn about renewable energy options for your home, business or organization. Full program details, applications for awards and eligibility requirements are available from the Renewable Energy Information Center. Call 800.762.7077 or visit focusonenergy.com.



focus on energySM
The power is within you.

CASH-BACK REWARDS

Cash-Back Rewards are available for installing or expanding commercially available renewable energy systems. Rewards vary by renewable energy system type, size and by the amount of energy the system is expected to produce.

Solar electric (PV) systems: Rewards for systems with a capacity of 20 kilowatts (kW) or less can fund up to 25 percent of the project cost, with a maximum reward of \$35,000. Incentives for nonprofit or local government projects may be approved for up to 35 percent, with a maximum reward of \$35,000.

Solar hot water systems: Rewards can fund up to 25 percent of the project cost, with a maximum reward of \$2,500 for small systems and a maximum reward of \$50,000 for systems that produce over 250 therms per year. Incentives for nonprofit or local government projects may be approved for up to 35 percent.

Solar bonus for homes: Owners of Wisconsin ENERGY STAR® Homes and existing homes that have participated in the Home Performance with ENERGY STAR Program are eligible for a \$500 bonus toward the cost of their solar electric or solar hot water system. To learn more about these programs, visit focusonenergy.com/solarbonus.

Wind energy systems: Rewards for systems with a capacity of 20 kW or less can fund up to 25 percent of the project cost, with a maximum reward of \$35,000. Incentives for nonprofit or local government projects may be approved for up to 35 percent.

Non-residential biomass combustion systems: Rewards for systems that produce 5,000 therms or less can fund up to 25 percent of the project cost, with a maximum reward of \$10,000.

GRANTS

Focus on Energy offers grants to help businesses and organizations install or determine the feasibility of installing large, commercially available renewable energy systems, to support the development of renewable energy businesses, and more. Rewards vary by grant type.

Business & Marketing Grants

These grants provide financial support to assist organizations and businesses that offer renewable energy services in developing their business plans and marketing materials. Focus on Energy can fund up to 50 percent of these project costs, up to a maximum of \$10,000.

Feasibility Study Grants

These grants provide financial support for feasibility studies to determine whether renewable energy systems will work for you. The grant is intended to increase the ability of businesses and organizations to make informed decisions about using complex, often large renewable energy systems by understanding and solving technical and economic uncertainties. Focus on Energy can fund up to 50 percent of these project costs, up to a maximum of \$10,000.

Implementation Grants

These grants provide financial support for developing large renewable energy systems with a capacity greater than 20 kW or 5,000 therms per year. The chart below summarizes the qualifying systems.

SYSTEMS QUALIFYING FOR IMPLEMENTATION GRANTS		
TECHNOLOGY	MAXIMUM PERCENTAGE OF PROJECT COST FUNDING	IMPLEMENTATION GRANT MAXIMUM **
Commercial solar water heating	25%*	\$50,000
Solar electric	25%*	\$50,000
Commercial wind	35%	\$100,000
Biogas digesters	25%	\$250,000
Non-residential biomass combustion	25%	\$250,000

* Nonprofit or local government projects may be funded up to 35 percent.

** Focus on Energy limits awards to no more than \$500,000 for any combination of grant types, to any individual or business during each fiscal year.

Development Grants

These grants provide financial support for large wind, biogas and biomass projects that are not eligible for Implementation Grants. These grants co-fund complex feasibility studies, environmental permitting, financing and other developmental activities. Focus on Energy can fund up to 50 percent of the project costs, up to a maximum of \$50,000.

Grant Deadlines

Grant applications are due at noon on the last Wednesday of every month. If your application is received after noon, it will be considered the following month. Grant applications may be submitted to the Renewable Energy Grant Committee by email to renewableapplications@focusonenergy.com or by mail to Focus on Energy, 431 Charmany Drive, Madison, WI 53719.

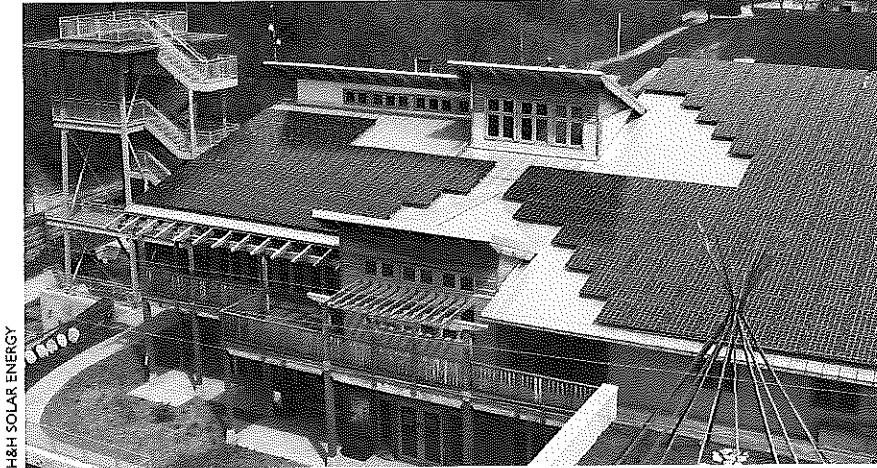
Focus on Energy will offer an updated version of this fact sheet on July 1, 2009.

Focus on Energy works with eligible Wisconsin residents and businesses to install cost effective energy efficiency and renewable energy projects. Focus information, resources and financial incentives help to implement projects that otherwise would not be completed, or to complete projects sooner than scheduled. Its efforts help Wisconsin residents and businesses manage rising energy costs, promote in-state economic development, protect our environment and control the state's growing demand for electricity and natural gas. For more information, call 800.762.7077 or visit focusonenergy.com.



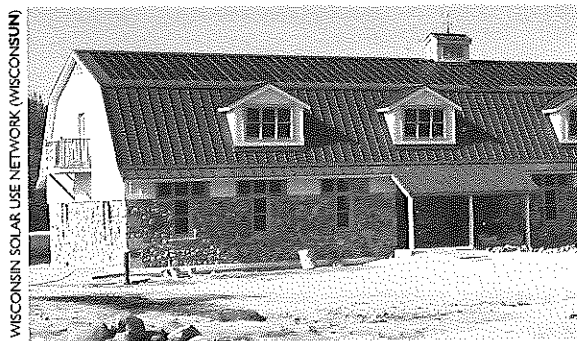
focus on energy™

The power is within you.



(top) The Urban Ecology Center in Milwaukee, Wisconsin features a fixed-mounted 44.4 kW system on its roof.

(right) The Ritger Law Office in Random Lake, Wisconsin, is connected to the grid but stores solar electricity from its solar electric roofing panels to provide uninterrupted power for computers, telephones and lighting.



SYSTEM SIZE AND COST

- One kW solar electric system, requiring about 85 square feet of crystalline modules, will generate one kilowatt hour (kWh) of electricity every hour under ideal conditions. In Wisconsin, an unshaded 1 kW panel, facing roughly south and inclined between 25 degrees and 50 degrees, generates about 1,200 kWh per year. A one kW dual-axis tracking system, which keeps the panels continually facing the sun, produces about 1,600 kWh per year.
- A simple grid-connected solar electric system costs roughly \$8,500 per kW (installed) for a fixed-mounted system, and roughly \$11,000 per kW (installed) for a dual-axis tracking system.
- The average single-family home in Wisconsin consumes 10,000 kWh of electricity per year, which would require a six kW to eight kW solar electric system. Reducing power needs by installing efficient appliances and lights—and by replacing electric water heaters, clothes dryers and stoves with natural gas or propane models—rapidly decreases the size of a solar electric system needed to power that home.

- Homes utilizing solar electric power tend to be more efficient than average homes. The average residential system installed with the support of Focus on Energy has a capacity of 3.8 kW. Some homes are meeting all of their electricity needs with 2.5 kW systems.

OTHER CONSIDERATIONS

- To determine if your site is well suited for a solar electric system, consider a Focus on Energy site assessment or contact a solar electric installer.
- Federal residential tax incentives for solar energy installations, Focus on Energy Cash-Back Rewards and increasing solar electric buy-back rates in some areas of Wisconsin are rapidly improving the economics of solar electric systems.
- A grid-connected solar electric system costs more than current utility power prices. However, as the cost of electricity increases, and system price falls, the economics of solar electric systems improve rapidly.
- To install a solar electric system, we encourage you to work closely with an experienced solar contractor to help guide you through the installation process and ensure a safe and reliable system.

FOR MORE INFORMATION

Focus on Energy

Focus on Energy is your resource for assistance in the installation of solar electric systems in Wisconsin. We help simplify solar electric projects by providing information, solar site assessments and a list of Wisconsin Full Service Installers. Incentives are available and cover roughly 20 percent of system costs. We also offer a wide variety of fact sheets and case studies featuring other renewable energy technologies and information on energy efficiency. Call 800.762.7077 for more information.

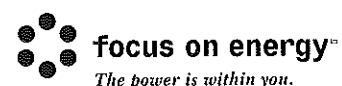
focusonenergy.com

DSIRE

DSIRE is a comprehensive source of information on state, local, utility and federal incentives that promote renewable energy.

dsireusa.org

Focus on Energy works with eligible Wisconsin residents and businesses to install cost effective energy efficiency and renewable energy projects. Focus information, resources and financial incentives help to implement projects that otherwise would not be completed, or to complete projects sooner than scheduled. Its efforts help Wisconsin residents and businesses manage rising energy costs, promote in-state economic development, protect our environment and control the state's growing demand for electricity and natural gas. For more information, call 800.762.7077 or visit focusonenergy.com.

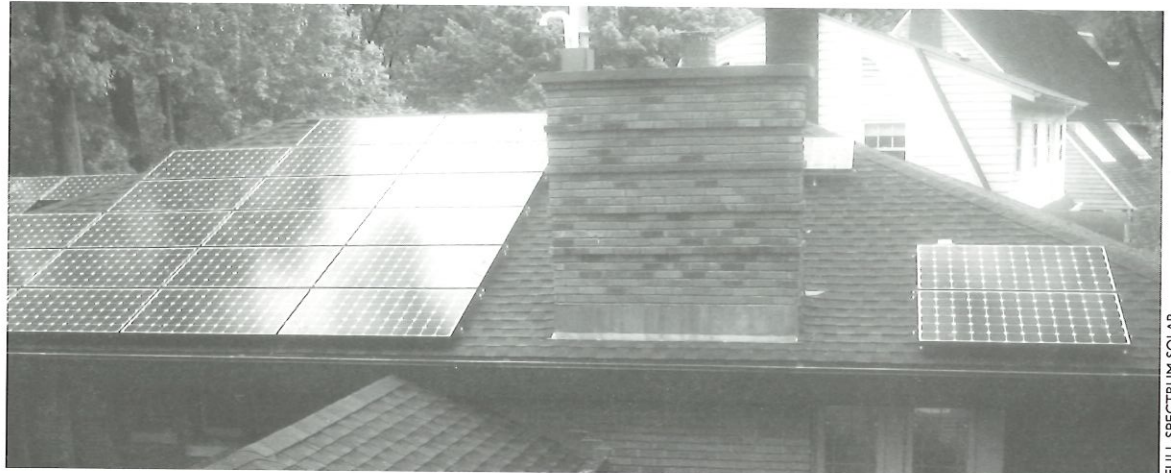


BIOMASS

SOLAR

WIND

To learn more about Focus on Energy, call 800.762.7077 or visit focusonenergy.com



FULL SPECTRUM SOLAR

This 7.4 kW solar electric system was installed on this Whitefish Bay, Wisconsin-area home with the help of Focus on Energy.

The solar resource is massive, dwarfing any other energy resource on the planet. The amount of sunlight that strikes the earth in one minute could supply the world's energy needs for a year.

Solar electric or photovoltaic (PV) technology is poised to become an important source of cost-effective, clean power in the next five years to ten years. During the past six years, the Wisconsin solar electric market grew at a rate of about 80 percent each year.

Benefits of solar electric systems:

- Generate power wherever there is sunlight
- Operate silently without moving parts, requiring little maintenance
- Reduce electricity bills
- Helps reduce our dependence on imported energy, while reducing greenhouse gas emissions and creating jobs.

It is not necessary to depend entirely on solar power. Many grid-connected residential systems provide 50 percent or less of a customer's electricity needs. When the sun goes down, the home still has power—it is simply provided by the electric utility.

All Wisconsin public investor owned and municipal utilities are required to allow solar electric systems to deliver surplus power to the grid. This surplus power turns your electric meter backward at your current electric rate, with the utility grid functioning like a 100-percent-efficient battery. This process is called net-energy billing.

Focus on Energy Cash-Back Rewards and federal tax credits can cover up to half the cost of a commercial solar electric system. Some Wisconsin electric utilities offer special solar buy-back rates that purchase every kilowatt-hour (kWh) your system generates for 22 cents to 25 cents.

SOLAR ELECTRIC SYSTEMS

While panels made by companies such as Sharp, General Electric, Kyocera and Sanyo come with warranties of 25 years, solar electric systems have an expected life of 40 to 50 years. Fixed-mounted systems have no moving parts and require little or no maintenance. A statewide network of certified professionals is available to perform high-quality installations.

SITING SOLAR ELECTRIC SYSTEMS

For existing homes and buildings, solar electric panels can be located on the roof, on a separate pole or rack, or attached as awnings.

If you choose to connect your renewable electric system to the utility grid, contact your electric utility for an interconnection application at the early stages of the project. Wisconsin utilities are required to connect a renewable electric generating installation to their utility systems. Except for rural electric cooperatives, Wisconsin utilities are also required to buy your excess electricity for the same price that you pay the utility for electricity if your system is less than 20 kilowatts.

It is also important to contact your insurance agent to be certain the proposed renewable energy system is covered by your homeowner's liability insurance policy.

Other legalities might include contacting your homeowners association or checking neighborhood covenants. A covenant that does not allow solar or wind renewable energy systems is against the law in Wisconsin, but there may be additional specifications for your area. State law prohibits restrictions on platted land that unduly restrict the construction and operation of solar and wind energy systems.

Focus on Energy can assist you in overcoming many issues that could arise.

5. SECURE FINANCING.

There are several places to turn for funding your renewable energy system. Many people do not realize that financing for a renewable energy home project might come from a home equity loan or from mortgage refinancing. A capital improvement loan may apply for commercial projects.

You can contact Focus on Energy to see whether your project qualifies for a Cash-Back Reward or grant to help offset project costs. Be sure to apply for any Focus on Energy incentives before purchasing equipment or signing a contract with an installer. In addition to these incentives, owners of Wisconsin ENERGY STAR® Homes and existing homes that have participated in the Home Performance with ENERGY STAR Program may be eligible for a \$500 bonus toward the cost of their solar electric or solar hot water system.

Wisconsin allows a property tax exemption for renewable energy equipment, so your renewable energy system will not affect your property tax bill. Additional funding may be available through federal tax incentives and your electric utility. For an updated list of incentives, visit the Database of State Incentives for Renewables and Efficiency Energy Web site at: dsireusa.org.

6. LEARN HOW TO MAINTAIN YOUR SYSTEM—SAFELY.

Ask your installer to give detailed, written instructions on how to maintain your system properly and safely. Keep an eye on metering systems and utility bills to be sure your system functions effectively and efficiently. You might also ask your installer how you can perform simple troubleshooting or maintenance, such as greasing moving parts on a wind turbine.

Focus on Energy works with eligible Wisconsin residents and businesses to install cost effective energy efficiency and renewable energy projects. Focus information, resources and financial incentives help to implement projects that otherwise would not be completed, or to complete projects sooner than scheduled. Its efforts help Wisconsin residents and businesses manage rising energy costs, promote in-state economic development, protect our environment and control the state's growing demand for electricity and natural gas. For more information, call **800.762.7077** or visit focusonenergy.com.

Be sure to learn basic safety requirements and procedures, like how to shut down the system in emergencies such as a flood or other situations that could damage the system; and how to power up the system after it has been shut down.

7. ENJOY SAVING MONEY AND ENERGY.

Congratulations! After your initial investment, you will start seeing money and energy savings on your utility bill. You also have a source of pride that produces energy without additional fuel costs, noise or air pollution, and you're doing your part to protect Wisconsin's environment.

HOW CAN FOCUS ON ENERGY HELP YOU?

Now that you know the process of choosing and installing a renewable energy system, there are many ways that Focus on Energy can help you. The Renewable Energy Program offers a variety of services to interested individuals and organizations. Our goals are to promote the use of renewable energy and support the development of Wisconsin's renewable energy businesses. We work with renewable energy experts and contractors throughout the state to provide you:

- General information about renewable energy system options, financial incentives, system costs and links to dealers and installers. In addition, we will assist you with information regarding relevant state regulations and utility requirements.
- Technical assistance to help you make the decisions necessary to install a renewable energy system or to help your organization determine the benefits of offering renewable energy products and services.
- Site assessments to determine the feasibility of installing a renewable energy system in a specific location.
- Education and training opportunities to help you learn more about renewable energy systems, including tours of demonstration sites and workshops.
- Financial assistance with your renewable energy projects.

FOR MORE INFORMATION

focusonenergy.com

Contact Focus on Energy to learn more about renewable energy choices. We have fact sheets and case studies featuring solar water heating, solar electricity, passive solar design, bioenergy and wind turbines for homes, farms and businesses. Renewable energy incentives are also available. Call **800.762.7077** for more information.



focus on energy™
The power is within you.



BIOMASS



SOLAR



WIND

Contact Focus on EnergySM to learn about renewable energy options for your home, business or organization. Full program details, applications for awards and eligibility requirements are available from the Renewable Energy Information Center. Call 800.762.7077 or visit focusonenergy.com.

Many people are interested in using renewable energy to meet their home or business energy needs, but sometimes the process is not clear and people don't know where to turn for help. Use the steps below as a guide to help you discover whether renewable energy can work for you.

1. LEARN ALL ABOUT IT.

It is important to be an educated consumer. Find out as much information as you need to feel comfortable with your energy decision. To learn more about renewable energy events and trainings in your area, visit the Focus on Energy Calendar at focusonenergy.com/calendar or call the Focus on Energy Information Center at 800.762.7077.

For hands-on learning, the Midwest Renewable Energy Association (MREA) offers workshops around the state. These workshops cover everything from tips on living with renewable energy to hands-on installation of actual systems. You can find the MREA course catalog at www.the-mrea.org, or by calling 715.592.6595 for a catalog.

2. GET A SITE ASSESSMENT.

The best way to find out whether you have a good location for renewable energy is to have a site assessment.

A site assessment will bring an expert to your site to evaluate and provide a basic analysis of your energy needs, evaluate renewable energy resource availability at your location, provide energy efficient suggestions and make recommendations on specific renewable energy systems that are right for you. A site assessment also provides information on the best place to locate a system and offers a general cost estimate—all summarized in a report.

Focus on Energy requires a site assessment when applying for a wind energy reward and site assessments are desirable for other projects. Visit focusonenergy.com/siteassessments or call 800.762.7077 to arrange a site assessment.

3. CALL AN INSTALLER; GET ESTIMATES.

Finding a reputable installer is as easy as visiting the Full Service Installer Lists online at



PHOTO COURTESY OF H&H SOLAR ENERGY SERVICES

This single-family home relies on solar electric energy to help supply power for the family's electric needs.

focusonenergy.com/fullserviceinstallers. These lists allow you to find a contractor near you and select full-service installers who provide a whole package of design, equipment, installation and maintenance services for renewable energy systems. A good contractor will also help you through steps 4 through 6 in the process.

It is best to get more than one installation estimate. An estimate should include the cost of hardware, shipping, installation, connection to the utility grid, travel and sales tax. Remember, the lowest price is not always the best value. A good contractor will also help you acquire permits, Focus on Energy co-funding and an approved utility interconnection by filling out the paperwork for you.

Many people may think about installing their own system. Unless you have applicable experience in all aspects of renewable energy system installations, hire a professional. Focus on Energy requires the use of a solar full-service installer and does not co-fund the installation of self-installed solar systems.

4. CHECK ZONING, UTILITY REQUIREMENTS, INSURANCE AND OTHER LEGALITIES.

Your renewable energy system installation will need to comply with the zoning and building codes of the county, city, village or town where the installation will be located. Permits may not be needed until you are ready to do the work. Most installers will get the permit for you.

During the site visit, the assessor will provide:

- A basic analysis of your energy needs
- Recommendations for energy efficiency to help lower your energy use and reduce the size of the renewable energy system you need
- An evaluation of the renewable energy resource at your site
- Recommendations for size and type of renewable energy system to meet your energy needs
- Estimated output of the renewable energy system, based on the resource estimate
- Information on the best place to site your system
- A general cost estimate for the system
- The next steps you need to take to make your system a reality

Additionally, the assessor will mail you a written report detailing this information.

SITE ASSESSMENT BENEFITS

A renewable energy site assessment conducted by a certified assessor provides an opportunity for you to talk with an experienced, objective third party about the characteristics of your property and lifestyle and learn about a variety of equipment and options. Certified site assessors are not selling renewable energy systems, nor will they promote specific equipment, vendors or installers during the site assessment. They will provide you with unbiased information that you can use when you begin talking to vendors about purchasing and installing a system at your home or business.

A site assessment is also a useful tool when organizations or municipalities are considering a project. The report can be used to present a summary of information and options to a group of decision makers for their approval, such as a board of directors or a budget committee.

OTHER TYPES OF SITE ASSESSMENTS

Some renewable energy system vendors and installers offer site assessments as part of their services. These businesses may charge you a separate fee for the assessment which they deduct from the cost of the system if you buy from them. This arrangement works well if you are comfortable evaluating the information given to you by a vendor. Others will provide limited information about your site's potential for a renewable system as part of the bidding process, at no cost to you. Again, this arrangement could work if you are comfortable evaluating information given by a vendor during the selling process.

COST OF A RENEWABLE ENERGY SITE ASSESSMENT

Certified assessors establish their own fees for their services. On average, the full cost of an assessment is between \$300 and \$500. The cost varies depending on the number of technologies being assessed and the complexity of the system, as well as the assessor's travel costs. When you arrange for a site assessment, discuss your expectations with the assessor so that he or she can give you an accurate cost estimate.

Focus on Energy cost-share information:

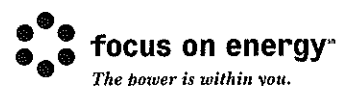
- For eligible customers, Focus on Energy will pay 50 percent of the site assessment costs for solar electric, solar water heating and residential wind electric systems.
- For eligible non-residential customers, Focus will pay 100 percent of the site assessment costs for a wind electric system, provided the customer installs the system and applies for a Cash-Back Reward or Implementation Grant within two years of the site assessment.

Please visit focusonenergy.com/siteassessments for more information.

OBTAINING A RENEWABLE ENERGY SITE ASSESSMENT

- Download a site assessment request form from focusonenergy.com/siteassessments or call 800.762.7077 to have a copy mailed to you
- Complete the form and mail it to the address indicated or return by email
- A Focus on Energy representative will call you to discuss your site assessment needs and determine if you qualify to receive an incentive coupon from Focus on Energy
- Qualifying individuals will be sent an incentive coupon and list of certified site assessors serving Wisconsin. Non-qualifying individuals may still request the list of assessors, and arrange for an assessment outside of the Focus Program
- Contact the assessor of your choice from the list and arrange a time for your site visit. Follow the instructions listed on the coupon to receive the discount
- Your completed assessment will be mailed to you, usually within 30 days
- Focus on Energy requires a site assessment when you apply for a wind energy reward, and site assessments are desirable for other projects seeking Focus incentives

Focus on Energy works with eligible Wisconsin residents and businesses to install cost effective energy efficiency and renewable energy projects. Focus information, resources and financial incentives help to implement projects that otherwise would not be completed, or to complete projects sooner than scheduled. Its efforts help Wisconsin residents and businesses manage rising energy costs, promote in-state economic development, protect our environment and control the state's growing demand for electricity and natural gas. For more information, call 800.762.7077 or visit focusonenergy.com.



RENEWABLE ENERGY

Assess your property's renewable energy potential

FACT SHEET



BIOMASS



SOLAR



WIND

Contact Focus on EnergySM to learn about renewable energy options for your home, business or organization. Full program details, applications for awards and eligibility requirements are available from the Renewable Energy Information Center. Call 800.762.7077 or visit focusonenergy.com.



PHOTO COURTESY OF RON WRÓBLEWSKI

A site assessor uses a Solar Pathfinder to determine the effectiveness of solar energy at this home before the homeowner invests in a solar electric or solar hot water system. The inset photo to the right shows the Solar Pathfinder under ideal conditions.

A certified site assessor can help you determine whether your home or business property is a good location for a renewable energy system. Site assessors provide specific information about energy efficiency and how renewable energy systems (solar electric, wind and solar hot water) can be used at a home or business location to help meet your energy needs.

Focus on Energy helped create a unique Wisconsin program that trains and certifies professional renewable energy site assessors. These certified assessors will visit your home or business property and analyze its renewable energy potential, providing unbiased information on a variety of systems and their suitability to your property and energy needs. Site assessors are certified by the Midwest Renewable Energy Association (MREA), which provides each assessor with training, testing and assessment oversight.

PREPARING FOR A SITE ASSESSMENT

There are several things you can do to prepare for a site assessment. In order to fully analyze your site, the assessor may need to inspect the roof, attic, utility room, garage or basement. Making sure that these areas are accessible will facilitate the process.

The assessor will also need information about your energy use and may request to see records of past usage. This can usually be obtained from your utility. Having this information available will assist the assessor in accurately evaluating your energy needs.

THE SITE ASSESSMENT

A certified assessor will visit your home or business property and analyze its renewable energy potential. The assessor will also answer specific questions you might have on renewable energy systems. Trained assessors will evaluate the potential for installing a solar electric, solar hot water or wind system at your site. Some assessors can evaluate multiple technologies during your site assessment; keep this in mind when determining what assessor to hire.



focus on energySM

The power is within you.

[Print this Page](#)

Yellow Pages Search Results

- Click arrows to re-order list.
- Click company name for more detailed information.
- Market providers are listed in **bold**.
- The **County** column is the county in which the business location resides.

Key

- i** : Information/Education Organization
- sw** : Solar Thermal and Water Heating Full Service Installer
- pv** : Photovoltaic Full Service Installer
- w** : Wind Energy Systems Full Service Installer
- ad** : Bioenergy - Anaerobic Digestion Full Service Installer
- pb** : Bioenergy - Plant-Based Solid Fuels Full Service Installer

[Modify Search]

Results: 22 1 2 3 Next >>

i	sw	pv	w	ad	pb	Companyⁱ	Cityⁱ	Countyⁱ	Phone Number
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				FULL SPECTRUM SOLAR	MADISON, WI	DANE	(608) 284-9495
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			H AND H SOLAR ENERGY SERVICES	MADISON, WI	DANE	(608) 273-3434
		<input type="checkbox"/>				WISCONSIN POWER CONTROL LLC	MARSHALL, WI	DANE	(608) 663-4604
		<input type="checkbox"/>				ALBRIGHT ELECTRIC AND SOLAR LLC	EVANSVILLE, WI	ROCK	(608) 882-4510
		<input type="checkbox"/>				CARR CREEK ELECTRIC SERVICE LLC	WOODVILLE, WI	ST. CROIX	(715) 698-4350
<input type="checkbox"/>	<input type="checkbox"/>					CONVERGENCE ENERGY LLC	LAKE GENEVA, WI	WALWORTH	(262) 997-6363
		<input type="checkbox"/>	<input type="checkbox"/>			ENERGIZE LLC	WINNECONNE, WI	WINNEBAGO	(920) 203-9555
		<input type="checkbox"/>				GREAT NORTHERN SOLAR	PORT WING, WI	BAYFIELD	(715) 774-3374
		<input type="checkbox"/>				GREEN POWER SOLUTIONS	NEW BERLIN, WI	WAUKESHA	(718) 744-7625
		<input type="checkbox"/>				HABI - TEK	GENEVA, IL	KANE	(630) 262-8193

1 2 3 Next >>

DH Solar -

GENERAL CONDITIONS AND REQUIREMENTS

8. SURVEYS, PERMITS, REGULATIONS AND TAXES

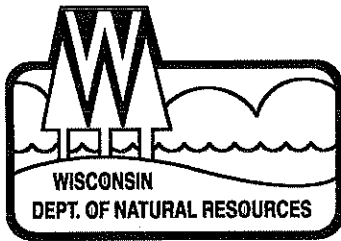
- 510
- E. The Contractor shall engage the services of an independent engineering firm for the purpose of performing an electrical systems coordination and short circuit study to insure the installation is coordinated and short circuit ratings of equipment are sufficient for interconnect point with Madison Gas and Electric. Contractor shall submit plans to Madison Gas and Electric for approval before commencing construction.
 - F. The Contractor shall meet and coordinate with Madison Gas and Electric to obtain interconnect approval and interconnect sales agreement on behalf of Owner.
 - G. The Contractor shall meet with Focus on Energy representative to obtain system rebates.

NABCEP certified

+
Bids due NOV 5?

construction complete NOV 30?

ccollins@HHSolar.org



Jim Doyle, Governor
Matthew J. Frank, Secretary

101 S. Webster St.
Box 7921
Madison, Wisconsin 53707-7921
Telephone 608-266-2621
FAX 608-267-2750
TTY 608-267-6897

INVITATION FOR PROPOSALS

DEPARTMENT OF NATURAL RESOURCES

Department Project No. RRSP-A

Photovoltaic Array Foundation & Trenching Refuse Hideaway Landfill Middleton/Dane County

PROPOSAL DEADLINE: November 5th, 2009

*** There is less than a 30 day bid period for this project***

OWNER: Wisconsin Department of Natural Resources

The Department of Natural Resources (DNR) is planning to install approximately 10kW of photovoltaic panels at the Refuse Hideaway Landfill near Middleton, Wisconsin. This requires foundation and trenching that is the scope of this RFP. Construction is planned for November of 2009 with completion on or before November 30th (weather permitting).

The scope of the work is described in more detail on the enclosed plans and specifications. If you are interested in performing this work, please submit a single lump sum proposal for all work to:

Robert Strous – RRSP-A
Wisconsin Department of Natural Resources
Bureau of Remediation and Redevelopment
101 S. Webster Street
PO Box 7921 – RR/5
Madison, Wisconsin 53707-7921

A site visit is highly recommended. Please contact DNR representative Hank Kuehling at 608/275-3286 for making such arrangements.

A copy of the "General Conditions and Requirements" is included for your reference. Your proposal should be submitted on the attached PROPOSAL FORM, and must be signed to be valid. Questions relating to the proposal documents and requirements should be directed to the Architect/Engineer, Gene Moe at 920/451-2679.

Proposals must be received at the Proposal receipt address noted above before the end of the business day on the deadline date shown above. The Department of Natural Resources is not responsible for delays in the mail. Faxed proposals are acceptable if: 1) they are received at the FAX number listed in the letterhead before the deadline indicated above, and 2) they are followed immediately by the original documents in the mail.

The Owner reserves the right to reject any or all proposals or to waive any informalities in any proposal, or to accept any proposal which will best serve the interests of the State.

Sincerely,

Robert E. Strous Jr., for
Bureau of Remediation and Redevelopment

Attach
cc: Hank Kuehling - SCR

A-1

Department of Natural Resources
Division of Lands
Bureau of Facilities and Lands

Photovoltaic Array Foundation & Trenching
Refuse Hideaway Landfill
Middleton, Wisconsin/Dane County

Department Project No. RRSP-A
October 20th, 2009

For the
State of Wisconsin
Department of Natural Resources
Bureau of Remediation & Redevelopment

By

The Department of Natural Resources
Division of Lands
Bureau of Facilities and Lands
101 South Webster Street
PO Box 7921 – LF/6
Madison Wisconsin 53707-7921

TABLE OF CONTENTS
Department Project Number RRSP-A

TC-1

DIVISION 1 – PROPOSAL AND CONTRACT REQUIREMENTS

Pages Thru

Invitation for Proposals

A-1

Title Page

1

Table of Contents

TC-1

Proposal Form

C-1

General Conditions and Requirements

GC-2

DRAWINGS AND/OR SCHEDULES – Bound Herein

DRAWINGS – BOUND Separately

Number	Title
E-01	Electrical Site Plan
E-02	Array Plan and Block Diagram
E-03	Details

PROPOSAL FORM

WISCONSIN DEPARTMENT OF NATURAL RESOURCES

Department Project Number RRSP-A

Engineer Assigned: Robert Strous

Photovoltaic Array Foundation & Trenching
Refuse Hideaway Landfill
Middleton, Wisconsin/Dane County

PROPOSAL DEADLINE: November 5th, 2009

To the Wisconsin Department of Natural Resources:

We Next Energy, LLC DBA Full Spectrum Solar
Of 100 S. Baldwin St, suite 101 Madison Dane WI 53703
Street City County State Zip

hereby agree to execute the proposed contract within ten (10) days of offering, and to provide all labor and materials required for the construction of the project designated above, for the prices hereinafter set forth, in accordance with the Contract Documents prepared by the Department of Natural Resources, dated 10/20/2009.

PROPOSAL: ALL WORK required to complete the project in accordance with the drawings and specifications,

for the sum of fifty two thousand two hundred
fifty & 0/100 Dollars (\$ 52,250.00).

Note: Please see alternate attached to RRSP-A which would eliminate this foundation.

Next Energy, LLC DBA Full Spectrum Solar (608) 217-8774
Firm Name Telephone Number

By Burke O'Neal Burke O'Neal co-owner
(Type or print name) Signature Title

Date 11/3/09

ADDENDUM RECEIPT: We acknowledge receipt of the following addenda:

ADDENDUM NO. _____ Date 11/2/09 Received by Burke O'Neal
ADDENDUM NO. _____ Date _____ Received by _____

GENERAL CONDITIONS AND REQUIREMENTS

1. GENERAL

- A. These General Conditions and Requirements are applicable to all Divisions and Sections of the work included herein and the Contractor must abide by the requirements set forth.
- B. The contractor shall contact Digger's Hotline prior to starting any construction work at the site. 1-800-242-8511.

2. CONTRACT DOCUMENTS

- A. The contract documents include all items in the table of contents plus addenda, change orders, and written interpretations by the Architect/Engineer. The intention of the documents is to include all labor, materials and equipment necessary for the proper and timely execution of the work.

3. DEFINITIONS

The terms used in this contract are defined as follows:

- A. Owner: The Department of Natural Resources
- B. Project Manager: An agent appointed by the Owner who acts on behalf of the Owner and is delegated to manage the project and sign change orders, payment requests and other administrative matters related to the project.
- C. Architect/Engineer: An agent appointed by the Owner who is responsible for the projects design, preparation of proposal documents, and field supervision of the project.
- D. Contractor: The prime contractor who agrees to perform, and assumes responsibility for, all project requirements set forth in the contract documents. Where the subject of a statement or directive is implied, reference is to the Contractor.

4. SHOP DRAWINGS AND WORKMANSHIP

- A. Upon request, the Contractor shall submit shop drawings to the Architect/Engineer for review, to provide satisfactory evidence as to the kind and quality of materials. Approval of shop drawings by the A/E is for design concept and materials quality only; contractor is responsible for complete, working installation that meets intent of project unless otherwise specified.
- B. The Contractor shall perform all work in a professional workmanlike manner.

5. CONTRACTOR'S TITLE TO MATERIALS

- A. No materials or supplies for the work shall be purchased by the Contractor or by any subcontractor subject to any chattel mortgage, under a conditional sale contract, or any other agreement by which an interest is retained by the seller.

6. "OR EQUAL" CLAUSE

- A. Whenever a material, article or piece of equipment is identified on the drawings or in the specifications by reference to type, or to manufacturer's or vendor's name, trade name, or catalog number, it is intended to establish a standard of quality; and any material, article, or equipment of other type, or other manufacturers and vendors which will perform adequately the duties imposed by the general design will be considered for approval provided the material, article or equipment so proposed is, in the opinion of the Architect/Engineer, of equal substance and function.

- B. No compromise in quality level, however small, is acceptable.

- C. No request for approval of "or equal" materials will be entertained except from the prime Contractor. Any costs growing out of the approval of "or equal" items shall be the responsibility of the Contractor and shall not devolve upon the Owner, the Architect/Engineer or other contractors.

- D. The use of materials or equipment other than those specified, or approved equal by the Architect/Engineer, shall constitute a violation of the contract, and the Architect/Engineer may require the removal of such materials or equipment and have them replaced with the specified materials or equipment at no additional expense to the Owner.

7. PATENTS AND ROYALTIES

- A. If the Contractor uses any design, device or material covered by letters, patent or copyright, the contract prices shall include all royalties or costs arising from the use of such design, device or materials.

8. SURVEYS, PERMITS, REGULATIONS AND TAXES

- A. Unless otherwise indicated, the Owner will furnish to the Contractor all site topography and property surveys necessary for the execution of the work.
- B. The Contractor shall procure all federal, state and local permits, licenses and approvals necessary for the execution of this contract.
- C. The Contractor shall pay all sales, consumer, use and other similar taxes required by law.
- D. Work under this contract shall be in compliance with all applicable state laws, codes and regulations.

9. PROTECTION OF WORK AND PROPERTY

- A. The Contractor shall at all times safely guard the work and the state's property from injury or loss in connection with this contract. The Contractor shall replace or make good any such damage, loss or injury caused by his work.
- B. In case of an emergency, which threatens loss or injury of property, or safety of life, the Contractor will be allowed to act, without previous instructions from the Owner, in a diligent manner. The Contractor shall notify the Architect/Engineer immediately thereafter. Any claim for compensation by the Contractor due to such extra work shall be promptly submitted to the Architect/Engineer for approval.

- C. Should the Contractor encounter subsurface or latent conditions at the site differing from those shown on the drawings or indicated in the specifications, the Contractor shall immediately give notice to the Architect/Engineer of such conditions before they are disturbed. The Architect/Engineer will investigate the conditions, and will make such changes as found necessary. Any increase or decrease in cost resulting from such changes will be incorporated into the contract by change order.

10. INSURANCE

- A. The Contractor shall procure and shall maintain during the life of this contract the following insurance:

- 1) Workmen's Compensation, including Employer's Liability Insurance for employees not otherwise protected;

- 2) Contractor's Public Liability Insurance in the amount of not less than \$250,000 for injuries, including accidental death, to any one person, and subject to the same limit for each person, in an amount not less than \$500,000 on account of one accident;
- 3) Contractor's Property Damage Insurance in the amount of not less than \$100,000 or a combined single limit of at least \$500,000;
- 4) Comprehensive Automobile Liability Insurance for limits of not less than: bodily injury \$250,000/\$500,000; property damage \$100,000 or a combined single limit of at least \$500,000.

B. The insurance provided under this article shall provide the indicated coverage for the Contractor and his subcontractors, and shall hold the Owner and the A/E harmless against all claims resulting from the contractors work. The obligations of the Contractor under this article shall not extend to the liability of the Architect/Engineer, agents or employees thereof arising out of the plans and specifications, or the giving of or the failure to give directions or instructions by the Architect/Engineer, agents or employees.

11. RIGHT OF OWNER TO TERMINATE CONTRACT

- A. In the event that any of the provisions of this contract are violated by the Contractor, or by his subcontractors, the Owner may serve written notice upon the Contractor of its intention to terminate the contract, such notice to contain the reason(s) for such intention. Unless within ten (10) days after the serving of such notice upon the Contractor, such reason(s) shall cease and satisfactory arrangement or correction be made, the contract shall, upon the expiration of said ten (10) days, cease and terminate.
- B. In the event of any such termination, the Owner shall immediately serve notice thereof upon the Contractor, and the Owner may take over the work and prosecute the same to completion by contract or force account at the expense of the Contractor. The Contractor shall be liable to the Owner for any excess cost, and in such event the Owner may take possession of and utilize in completing the work, such materials as may be on the site of the work and necessary therefor.

12. SPECIAL SITE CONDITIONS - USE OF THE PREMISES

- A. Confine all operations, equipment, apparatus, and storage of materials to the immediate area of work to the greatest possible extent. Contractor shall ascertain, observe and comply with all rules and regulations in effect on the project site, including, but not limited to parking and traffic regulations, use of walks, security restrictions, hours of allowable ingress and egress, and traffic within or to the project site.

13. TEMPORARY FACILITIES

- A. Water, electricity, toilet facilities, and telephone service may not be available on the property. Contractor to make their own arrangements for any of these facilities as required.
- B. No temporary fence is required except as necessary to meet applicable safety regulations.

14. PROTECTION

- A. Work shall comply with the Wisconsin Administrative Code, Chapter ILHR 32, Safety and Health Standards for Public Employees.
- B. Provide protection against weather and construction operations for existing equipment and all other improvements in and around the construction site.

15. STORM WATER MANAGEMENT AND EROSION CONTROL

- A. The "Wisconsin Construction Site Best Management Practice Handbook," by the Wisconsin Department of Natural Resources, Bureau of Wastewater Management will be basis for storm water management and erosion control on this project.
- B. The Contractor shall follow applicable guidelines for storm water management and erosion control as directed by the Architect/Engineer. A detailed plan for the accomplishment of this objective will be prepared by the Contractor prior to the preconstruction meeting, and must meet the approval of the Architect/Engineer before construction can commence.

16. CLEANING

- A. Contractor shall keep premises free of accumulations of surplus materials and rubbish caused by his operation, and shall thoroughly clean premises upon completion.

17. METHOD OF PAYMENT

- A. *In lieu of a performance bond, no partial payments will be made during the course of the project. Payment will be made in one lump sum for the total project when all contract obligations have been met to the satisfaction of the Project Engineer.*
- B. *The making of final payment shall constitute a waiver of all claims by the state except those arising from: any unsettled lien; faulty or defective work; failure to comply with contract requirements; the terms of any guarantees required by the contract documents. The acceptance of final payment shall constitute a waiver of all claims by the Contractor.*

18. NONDISCRIMINATION/AFFIRMATIVE ACTION

- A. *The contractor shall follow state accepted nondiscrimination and affirmative action policies while pursuing work under this contract*

2) Contractor's Public Liability Insurance in the amount of not less than \$250,000 for injuries, including accidental death, to any one person, and subject to the same limit for each person, in an amount not less than \$500,000 on account of one accident;

3) Contractor's Property Damage Insurance in the amount of not less than \$100,000 or a combined single limit of at least \$500,000;

4) Comprehensive Automobile Liability Insurance for limits of not less than: bodily injury \$250,000/\$500,000; property damage \$100,000 or a combined single limit of at least \$500,000.

- B. The insurance provided under this article shall provide the indicated coverage for the Contractor and his subcontractors, and shall hold the Owner and the A/E harmless against all claims resulting from the contractors work. The obligations of the Contractor under this article shall not extend to the liability of the Architect/Engineer, agents or employees thereof arising out of the plans and specifications, or the giving of or the failure to give directions or instructions by the Architect/Engineer, agents or employees.

11. RIGHT OF OWNER TO TERMINATE CONTRACT

- A. In the event that any of the provisions of this contract are violated by the Contractor, or by his subcontractors, the Owner may serve written notice upon the Contractor of its intention to terminate the contract, such notice to contain the reason(s) for such intention. Unless within ten (10) days after the serving of such notice upon the Contractor, such reason(s) shall cease and satisfactory arrangement or correction be made, the contract shall, upon the expiration of said ten (10) days, cease and terminate.
- B. In the event of any such termination, the Owner shall immediately serve notice thereof upon the Contractor, and the Owner may take over the work and prosecute the same to completion by contract or force account at the expense of the Contractor. The Contractor shall be liable to the Owner for any excess cost, and in such event the Owner may take possession of and utilize in completing the work

14. PROTECTION

- A. Work shall comply with the Wisconsin Administrative Code, Chapter ILHR 32, Safety and Health Standards for Public Employees.
- B. Provide protection against weather and construction operations for existing equipment and all other improvements in and around the construction site.

15. STORM WATER MANAGEMENT AND EROSION CONTROL

- A. The "Wisconsin Construction Site Best Management Practice Handbook," by the Wisconsin Department of Natural Resources, Bureau of Wastewater Management will be basis for storm water management and erosion control on this project.
- B. The Contractor shall follow applicable guidelines for storm water management and erosion control as directed by the Architect/Engineer. A detailed plan for the accomplishment of this objective will be prepared by the Contractor prior to the preconstruction meeting, and must meet the approval of the Architect/Engineer before construction can commence.

16. CLEANING

- A. Contractor shall keep premises free of accumulations of surplus materials and rubbish caused by his operation, and shall thoroughly clean premises upon completion.

17. METHOD OF PAYMENT

- A. *In lieu of a performance bond, no partial payments will be made during the course of the project. Payment will be made in one lump sum for the total project when all contract obligations have been met to the satisfaction of the Project Engineer.*
- B. *The making of final payment shall constitute a waiver of all claims by the state except those arising from: any unsettled lien; faulty or defective work; failure to comply with contract requirements; the terms of any guarantees required by the contract documents. The acceptance of final payment shall*

PROPOSAL FORM

WISCONSIN DEPARTMENT OF NATURAL RESOURCES

Department Project Number RRSP-A

Engineer Assigned: Robert Strous

Photovoltaic Array Foundation & Trenching
Refuse Hideaway Landfill
Middleton, Wisconsin/Dane County

PROPOSAL DEADLINE: November 5th, 2009

To the Wisconsin Department of Natural Resources:

We H & H Solar Energy Services, Inc.

Of 818 Post Road, Madison, Dane, WI 53713

Street

City

County

State

Zip

hereby agree to execute the proposed contract within ten (10) days of offering, and to provide all labor and materials required for the construction of the project designated above, for the prices hereinafter set forth, in accordance with the Contract Documents prepared by the Department of Natural Resources, dated 10/20/2009.

PROPOSAL: ALL WORK required to complete the project in accordance with the drawings and specifications,

for the sum of Eighty One Thousand Two Hundred Fifty

Dollars (\$ 81,250.00).

H & H Solar Energy Services, Inc.


Firm Name

(608) 268-5922

Telephone Number

By Kurt Hutter

(Type or print name)


Signature

Vice President

Title

Date November 5, 2009

ADDENDUM RECEIPT: We acknowledge receipt of the following addenda:

ADDENDUM NO. _____

Date _____

Received by _____

ADDENDUM NO. _____

Date _____

Received by _____

Strous Jr, Robert E - DNR

From: Chip Plummer [cplummer@h-hgroup.com]
Sent: Friday, November 06, 2009 9:41 AM
To: Strous Jr, Robert E - DNR
Subject: Refuse Hideaway

Hi Bob,

It looks like I screwed up on a number of things concerning this bid. First, I thought the access was going to be way more difficult and didn't realize that there is a road going back to the solar site. Secondly, I used an incorrect multiplier on the 800+ feet of underground pvc piping we needed to install. Reworking my estimate, we should have been more than \$10,000.00 lower than the price we submitted. My apologies for my screw up and hopefully it won't happen again.

Thanks,

Chip Plummer
President
H&H Solar Energy Services
608-268-5910
cplummer@h-hgroup.com

PROPOSAL FORM

WISCONSIN DEPARTMENT OF NATURAL RESOURCES

Department Project Number RRSP-B

Engineer Assigned: Robert Strous

Photovoltaic Array Purchase and Installation

Refuse Hideaway Landfill

Middleton, Wisconsin/Dane County

PROPOSAL DEADLINE: November 5th, 2009

To the Wisconsin Department of Natural Resources:

We H & H Solar Energy Services, Inc.

Of 818 Post Road, Madison, Dane, WI 53713

Street

City

County

State

Zip

hereby agree to execute the proposed contract within ten (10) days of offering, and to provide all labor and materials required for the construction of the project designated above, for the prices hereinafter set forth, in accordance with the Contract Documents prepared by the Department of Natural Resources, dated 10/20/2009.

PROPOSAL: ALL WORK required to complete the project in accordance with the drawings and specifications,

for the sum of Ninety Six Thousand Two Hundred

Dollars (\$ 96,200.00).

H & H Solar Energy, Services, Inc.

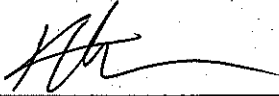
Firm Name

(608) 268-5922

Telephone Number

By Kurt Hutter

(Type or print name)


Signature

Vice President

Title

Date November 5, 2009

ADDENDUM RECEIPT: We acknowledge receipt of the following addenda:

ADDENDUM NO. 1

Date November 2, 2009

Received by e-mailed to Kurt Hutter

ADDENDUM NO. 2

Date November 3, 2009

Received by e-mailed to Kurt Hutter

Dave Haden
Gene Moe

Barke -
concrete person

could fill w/ Traffic Bind

(Anger texture -
w/ Fines)

Call Niels Wolther
Focus on Energy

Ballasted system

concerns re: snow

1 ft. clearance
36° pitch < 2%

can we get it up 2' ?

Excavate soil 6-10" upslope : than to zero
for water drainage

Anchor ?

Geotextile (weed control)

Δ angle ? 25% increase?

Gravel
1 1/2 in

Geotextile
Day 1/24 -

Madison engineering Bldg Example

ARRAY 2 strips - 6' x 65'

Soil Disposal - Pits: Pits. Footprint - 64" x 74' 8"
for above treated
Variable Pitch ?

Revisions to P.V. Layout -

- 1) Trenching & Specs for connection remain the same.
- 2) Ballasted Rack is OK - (18" wide)
- 3) Foundation will be 10" of clear 1 1/2 in stone - w/ geotextile fabric put down 10ft. - w/ at least 1 foot to North of rack and 3 feet South of rack - ~~plus~~ (the 3' are daylighted like tapered) top level of ground surface (i.e. the bottom of the trench (w/ geotextile) is level on slightly down slope to provide for drainage.
- 4) Space between rows of the array will be 15' (11' of gravel, 1 ft behind the S. row & 3' in front of N. row)
- 5) No adjustment to rack will be necessary - set @ best angle (your judgment) 36°
- 6) Split out proposal to be 2 @ $\leq 60,000$
- 7) Trenching & gravel done by Dec. - ? / Extra Soil.

D. Traxler

Seed
mats



focus on energy™

The power is within you.

NOTICE OF INSTALLATION

Submit after the system is installed

Please work with your installer to complete this form

Email or Mail a signed copy to:

renewableapplications@focusonenergy.com

Focus on Energy, Attn: Renewable Energy Program

431 Charmany Drive, Madison WI 53719

1. Type of renewable energy system (check one):

<input type="checkbox"/> Wind	<input type="checkbox"/> Anaerobic Digestion
<input type="checkbox"/> Solar Electric	<input type="checkbox"/> Biomass Combustion
<input type="checkbox"/> Solar Hot Water	

2. Date the installation was completed: ____ / ____ / ____

3. Customer Information – Complete all appropriate fields

Name of owner or contact person (please print)		Company/Organization	
Federal I.D. No. (FEIN)	<input type="checkbox"/> Individual/Sole Proprietor <input type="checkbox"/> Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> LLC <input type="checkbox"/> 501(c)3 <input type="checkbox"/> Government <input type="checkbox"/> School <input type="checkbox"/> Other:	<input type="checkbox"/> For Profit	<input type="checkbox"/> Nonprofit
\$500 Bonus for Efficient Homes (focusonenergy.com/500bonus): <input type="checkbox"/> My home is a certified Wisconsin ENERGY STAR Home® <input type="checkbox"/> I have had the Home Performance with ENERGY STAR pre- and post-performance inspection on my home <input type="checkbox"/> I have not participated in the Wisconsin ENERGY STAR Home or the Home Performance with ENERGY STAR program and understand that I am not eligible for the \$500 Solar Bonus			
Mailing Address	City	State	ZIP
Owner/Contact Home Phone	Owner/Contact Work Phone	Owner/Contact Home Email	
Installation Address (No PO Boxes)	City	State	ZIP
Electric provider at installation address			
Water heating fuel supplier at installation address		Space heating fuel supplier at installation address	
Current water heating fuel type: <input type="checkbox"/> Natural gas <input type="checkbox"/> Propane (LP) <input type="checkbox"/> Oil <input type="checkbox"/> Electric <input type="checkbox"/> Other: _____		Current space heating fuel type: <input type="checkbox"/> Natural gas <input type="checkbox"/> Propane (LP) <input type="checkbox"/> Oil <input type="checkbox"/> Electric <input type="checkbox"/> Other: _____	

November 23, 2009

Troy Ostrowski
Renewable Energy Program Assistant
Wisconsin Focus on Energy
431 Charmany Dr.
Madison, WI 53719

WI Department of Natural Resources
Attn: Robert Strous Jr
PO Box 7921
Madison WI 53707

Received

NOV 30 2009

REMEDATION &
REDEVELOPMENT

Dear Robert Strous Jr:

Congratulations, based on the information provided in your application, a Cash-Back Reward for your Solar Electric System (PV) has been approved for \$25,134.00. A copy of your approved application is enclosed for your records. Also enclosed is a W-9 tax identification form. Please complete and return the W-9 to the address listed above within 30 days.

Now that you have received the approval, you may move forward with the purchase and installation of your system. After the installation is complete, please fill out, sign and return the enclosed Notice of Installation (NOI) form to the address listed above. The final Cash-Back Reward amount will be calculated based on the installed system information provided in the NOI. After the NOI is approved, a check will be mailed to you. Solar electric systems installed by contractors not currently on the Focus on Energy Full Service Solar Electric Installation Firm list (focusonenergy.com/fullserviceinstallers, 800.762.7077) must pass a compliance site visit before the reward will be issued.

Due to the huge demand for Focus on Energy incentives, please be advised that the program will be tightly managing the required one year deadline for system installation. As stated in your application, projects that take more than six months to complete must submit a progress report after six months noting substantial progress toward installation, such as copies of receipts for equipment or a signed installation contract. If you are not able to meet these conditions, Focus on Energy reserves the right to terminate the reward.

If appropriate, Wisconsin's Focus on Energy Program may want to showcase your project as a way to promote renewable energy. If your project could be of possible media interest, a Focus on Energy public relations representative may contact you for additional information.

Please let me know if you have any questions.

Sincerely,



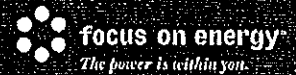
Troy Ostrowski
troyo@weccusa.org
888.476.9534

Enclosures (3)

2278

2278

SOLAR ELECTRIC (PHOTOVOLTAIC) SYSTEM CASH-BACK REWARD PRE-APPROVAL APPLICATION



Projects from 0.5 to 50 kilowatts capacity. Valid through December 31, 2009.

Initial Application Updated Application

STEPS TO APPLY FOR A CASH-BACK REWARD

1. Focus on Energy strongly recommends that you arrange for a Focus on Energy Solar Electric Site Assessment to help determine if a solar electric system is suitable for your location (focusonenergy.com/siteassessments).
2. Focus on Energy recommends obtaining at least three bids for your solar electric system from eligible installation contractors on the [Focus on Energy Full Service Solar Electric System Installation Firms](http://focusonenergy.com/fullserviceinstallers) list (focusonenergy.com/fullserviceinstallers).
3. Make sure your installation contractor designs the system according to the system requirements specified in this application.
4. Complete and email or mail a signed copy of this application to the address at the bottom of the page.
5. Homeowners that have fully participated in the Wisconsin ENERGY STAR Home Program or Home Performance with ENERGY STAR Program are eligible to receive a \$500 bonus reward (focusonenergy.com/solarbonus).
6. Do not purchase, order or install any equipment until you have been notified by Focus on Energy that your application is approved! Installation prior to Focus on Energy approval may render your project ineligible for funding.
7. Within 30 days of receiving a completed application, Focus on Energy will notify you if your application has been approved. You will also receive a Notice of Installation form that you will need to complete and return after your system has been installed.
8. If your system's expected electricity production changes by more than 20 percent after your Cash-Back Reward is approved, please update the information on the system using a new Cash-Back Reward application and mail it to the address listed below. If the updated Cash-Back Reward application is not approved by Focus on Energy, additional funds may not be awarded.
9. Install the system and ensure installation meets all applicable local, state and national codes, including the National Electric Code, has the appropriate permits and that you have a signed interconnection agreement with your electric provider. You have one year to install and submit the completed Notice of Installation.
10. To receive the Cash-Back Reward payment, mail the Notice of Installation to the address at the bottom of this page.

Questions regarding this application should be directed to Focus on Energy at 800.762.7077 or renewableapplications@focusonenergy.com.

APPLICANT INFORMATION Complete all appropriate fields. Please print.

Contact Name or Name of Residential Owner Robert E. Strous, Jr.		Company/Organization (if applicable) WI Department of Natural Resources			
Federal I.D. NO. (if applicable) 396006436	<input type="checkbox"/> LLC <input type="checkbox"/> Corporation	<input type="checkbox"/> Partnership <input type="checkbox"/> Individual/Sole proprietor	<input type="checkbox"/> For Profit		
	<input type="checkbox"/> School <input type="checkbox"/> 501(c)3	<input checked="" type="checkbox"/> Government <input type="checkbox"/> Other:	<input checked="" type="checkbox"/> Not for Profit		

\$500 Solar Bonus for Homeowners (focusonenergy.com/solarbonus):

- Home is/will be certified Wisconsin ENERGY STAR Home
- Home has/will complete Home Performance with ENERGY STAR in-home evaluation and post performance inspection
- Home is NOT participating in the Wisconsin ENERGY STAR Home or Home Performance with ENERGY STAR Programs

Mailing Address P.O. Box 7921	City Madison	State WI	ZIP 53707-7921	County Dane
Owner/Contact Home Phone	Owner/Contact Work Phone (608) 266-2699	Owner/Contact Email Robert.Strous.Jr@Wisconsin.gov		
Installation address (no PO Boxes) 7562 USH 14	City Middleton	State WI	ZIP 53562	County Dane
Electric utility at installation address MG&E	Space heating fuel supplier at installation address N/A			
Current space heating fuel type: <input type="checkbox"/> Natural gas <input type="checkbox"/> Propane (LP) <input type="checkbox"/> Oil <input type="checkbox"/> Electric <input type="checkbox"/> Other:				

INSTALLATION CONTRACTOR INFORMATION

Company installing the system Full Spectrum Solar		Lead Installer's Name Burke O'Neal		
Mailing Address 100 S. Baldwin Street, Suite 101	City Madison	State WI	ZIP 53703	
Company Phone 608-284-9495	Company Email burke@fullspectrum solar.com	NABCEP License Number 091804-19		

E-mail or mail the completed Cash-Back Reward application to:
renewableapplications@focusonenergy.com

Focus on Energy, Attn: Renewable Energy Cash-Back Rewards, 431 Charming Drive, Madison, WI 53719.
Questions regarding this application should be directed to Focus on Energy at 800.762.7077.

SOLAR ELECTRIC (PHOTOVOLTAIC) SYSTEM CASH-BACK REWARD PRE-APPROVAL APPLICATION



Projects from 0.5 to 50 kilowatts capacity. Valid through December 31, 2009.

SYSTEM SPECIFICATIONS AND COST ESTIMATE

Manufacturer and Model	Rated Capacity	Number	Total Capacity	Total Cost
Modules: Sharp ND-224U2	.224 Kilowatts per module	44	9.88 kW 9.88 kW 9.856 ✓	\$34,000
Inverter: Fronius IG 11.4-3 Plus	11.4 Kilowatts per inverter	1	11.4 kW ✓	\$7,500
Rack: DP&W BRM	NA	1	NA	\$15,000
Charge Controller: ¹ NA	_____ Amps			
Batteries: ¹ NA	_____ Amp hours per battery			

¹ Only for systems with batteries.

Other Costs

Balance of System:	\$18,073	Labor:	19,000	Shipping:	\$500	Other:	
TOTAL SYSTEM COST:	\$94,073						

SYSTEM DETAILS

Estimated Installation Date 1/15/10	Annual Shading Estimate (Do not include snow shading) 0 %	Shading Tool Used Pathfinder
--	--	---------------------------------

RACKING Complete appropriate section based on type of rack

Type	Module Compass Direction (degrees)	Module Tilt Angle (degrees)
<input checked="" type="checkbox"/> Fixed Rack	180	36
<input type="checkbox"/> Single Axis Tracking Rack	NA	
<input type="checkbox"/> Dual Axis Tracking Rack	NA	NA

TO BE COMPLETED BY FOCUS ON ENERGY STAFF ONLY Project Information

Project Number 2278	Application Received By Troy Ostrowski	Date Received 11/18/09
Estimated Energy Production 12,567 kWh/yr	Parasitic Losses _____	Peak kW 4.928 kW
Cash-Back Reward Estimate \$25,134	Cash-Back Reward Approved <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Approved By H.S. Date Approved 11/20/09

E-mail or mail the completed Cash-Back Reward application to:
renewableapplications@focusonenergy.com

Focus on Energy, Attn: Renewable Energy Cash-Back Rewards, 431 Charming Drive, Madison, WI 53719.
Questions regarding this application should be directed to Focus on Energy at 800.762.7077.

SOLAR ELECTRIC (PHOTOVOLTAIC) SYSTEM CASH-BACK REWARD PRE-APPROVAL APPLICATION



Projects from 0.5 to 50 kilowatts capacity. Valid through December 31, 2009.

INSTRUCTIONS

All of the requested information on the Cash-Back Reward application must be completed. If the information is incomplete or vague, your application will not be approved.

- **Annual Shading:** Shading is the percentage that the modules will be shaded annually by obstructions (including trees, power lines, buildings, etc), not including snow. The obstruction shading estimate must be based on the analysis done with a shading tool. List the name of the shading tool used.
- **Module Compass Direction (degrees):** Enter the compass direction the modules will face.
- **Module Tilt Angle (degrees):** Enter the number of degrees the modules' surface will be from horizontal.
- **Snow Cover:** Focus on Energy staff will estimate the systems shading caused by snow cover based on the array's tilt angle as follows:

Tilt Angle	≥ 35°	≥20° — <35°	≥14° — <20°	≥10° — <14°	≥5° — <10°	≥2° — <5°	<2°
Shading from snow cover	1%	2%	3%	4%	6%	8%	12%

DETERMINING THE CASH-BACK REWARD LEVEL

Focus on Energy uses PVWatts version 1 (available online) to estimate your system's annual electricity production (using a 0.80 DC to AC derate factor to account for system losses). The PVWatts annual kilowatt hour (kWh) production estimate is reduced by your estimate of annual shading caused by obstructions, and the Focus on Energy estimate of shading due to snow cover. These reductions result in an adjusted PVWatts annual production estimate. Production adjustments are not made for manually adjustable racks.

Focus on Energy uses the following table to determine your Reward Factor. The appropriate Reward Factor is multiplied by your system's adjusted PVWatts' annual production estimate to determine your Cash-Back Reward. The Cash-Back Reward for solar electric systems can not exceed the Maximum Cost Share or Maximum Reward. Focus on Energy will not cost share any system-owner labor costs unless the installation contractor can document payment to the system-owner for the provided services.

SYSTEMS AT:	DC RATED MODULE CAPACITY (kW)	REWARD FACTOR	MAXIMUM COST SHARE	MAXIMUM REWARD
Residential or Business sites	≥0.5 — ≤20	\$1.50 per kWh/yr	25%	\$35,000
	>20 — ≤50	\$1.00 per kWh/yr	25%	\$50,000
Nonprofit* or Government sites	≥0.5 — ≤20	\$2.00 per kWh/yr	35%	\$45,000
	>20 — ≤50	\$1.50 per kWh/yr	35%	\$75,000

*Nonprofit groups must file a federal IRS form 990 or equivalent.

SYSTEM REQUIREMENTS

- **Certified Installer:** The solar electric system must be installed by a contractor on the [Focus on Energy Full Service Solar Electric Installation Firms list](#) or by an individual who has met the experience and training criteria of the Solar Electric Full Service Policy ([focusonenergy.com/REinstallers](#)).
- **New Components:** All of the major system components (modules, inverter and, if needed, a charge controller) must be new.
- **Minimum System Size:** Projects are eligible only if the total DC rated capacity of the solar electric modules is over 500 watts.
- **Maximum System Size:** Projects are eligible only if the total DC rated capacity of the solar electric modules is 50 kilowatts or less.
- **Certified Modules and Inverters:** Solar electric modules and inverters must be on California's list of eligible equipment.
- **Two-Year Installation Warranty.** The system must include at least a two-year installation warranty that covers any defects in the workmanship of the installation at no charge to the owner. The warranty must be provided by the firm that installs the solar electric system.
- **One-Year Equipment Warranty.** All major system components must have at least a one-year warranty.

E-mail or mail the completed Cash-Back Reward application to:
renewableapplications@focusonenergy.com

Focus on Energy, Attn: Renewable Energy Cash-Back Rewards, 431 Charming Drive, Madison, WI 53719.
Questions regarding this application should be directed to Focus on Energy at 800.762.7077.

SOLAR ELECTRIC (PHOTOVOLTAIC) SYSTEM CASH-BACK REWARD PRE-APPROVAL APPLICATION



Projects from 0.5 to 50 kilowatts capacity. Valid through December 31, 2009.

TERMS AND CONDITIONS

1. **Eligibility.** Businesses, organizations, institutions, and federal, state, county, local or tribal governments and residents are eligible for Focus on Energy incentives if they purchase electricity from an electric provider participating with Focus on Energy. For a list of participating providers visit, focusonenergy.com/utilities.
2. **System Location.** The renewable energy system must be installed on a site whose owner purchases electricity from an electric provider participating with Focus on Energy for that site.
3. **Approval.** An application for a Cash-Back Reward must be approved by Focus on Energy before any equipment is ordered, purchased or installed. Within 30 days of receiving a complete application, you will be mailed a letter notifying you if your application has been approved. Installation prior to Focus on Energy approval may render your project ineligible for funding.
4. **System Requirements.** The renewable energy system must be designed and installed to meet the "System Requirements" described in this application. The renewable energy system must have the appropriate permits and comply with all applicable federal, state and local codes governing the installation and operation of renewable energy systems.
5. **Systems located at Spec homes.** For new spec homes that have not yet been purchased, the home builder should apply and receive approval from Focus for the Cash-Back Reward on behalf of the future homeowner. The new homeowner should submit the notice of installation and is eligible for the reward payment after the home's purchase.
6. **Repairs Are Not Eligible.** Repairs, general maintenance or replacement of batteries or inverters are not eligible.
7. **One-Year Project Deadline.** The renewable energy system must be installed and the Notice of Installation submitted within one year. Projects that take more than six months to complete must submit a progress report after six months noting substantial progress toward installation, including copies of receipts for equipment or a signed installation contract. If the installation does not meet the one year timeline the Focus on Energy Program may terminate your reward. You will receive a written warning 30 days before your reward is cancelled. Requests for extensions beyond the twelve-month period must be submitted in writing to Focus on Energy at the address noted on the bottom of the page.
8. **Notice of Installation.** The Cash-Back Reward will be paid after the system has been installed and a complete Notice of Installation has been submitted. Dated invoices or receipts for all projects must be submitted with the Notice of Installation. Only costs directly linked to the renewable energy system are eligible. The Cash-Back Reward will be paid within 60 days of receipt and acceptance of the Notice of Installation.
9. **System Operation.** The Cash-Back Reward recipient agrees to operate the renewable energy equipment, at the location proposed and as described in the grant application, for a period of at least three (3) years.
10. **Additional Terms.** Focus on Energy reserves the right to:
 - a. Withhold payment until any identified problems with the renewable energy system are resolved
 - b. Terminate this reward in whole or in part due to the recipient's failure to fulfill the terms and conditions in this document, due to non-appropriation of necessary funds
 - c. Alter or discontinue the Cash-Back Reward program at any time without notice
 - d. Make the final determination on whether items meet the standards set forth in the program
 - e. Inspect the system to ensure that it is consistent with all "Terms and Conditions"
 - f. Monitor or evaluate the performance of the system for a period of two (2) years
11. **Privacy.** Focus on Energy reserves the right to publicize your participation in this program, unless you specifically request otherwise.
12. **Disclaimer.** Acceptance of this Cash-Back Reward does not constitute the approval, acceptance, warranty, guarantee or endorsement of Focus on Energy or Wisconsin Energy Conservation Corporation.

Please Note: This completed form must be submitted and approved by Focus on Energy before any equipment is ordered, purchased or installed.

OWNER/CONTACT SIGNATURE

I certify that I have performed or reviewed this application and any accompanying documentation, and the information is reasonable and accurate. I further certify the unit(s) is to be installed at the indicated installation address. I have read the terms and conditions associated with this program.

Owner/Contact Signature	Date 11/16/09
-------------------------	------------------

- Periodically, Focus on Energy evaluates program efficacy by monitoring energy use / production prior to and after installation of renewable energy system(s). Your signature provides Focus on Energy approval to obtain energy data directly from your electric and/or natural gas provider(s). If you prefer not to grant Focus on Energy access to your electric / natural gas records, please check the "Opt Out" box. Opt Out
- Focus on Energy representatives promote the program and renewable energy in Wisconsin through the use of photos, project descriptions and general project locations during public presentations and verbal or written conversations with interested parties. Your signature provides Focus on Energy approval to use photos, provide a general description and reference the general location of your project for the purposes described above. If you prefer not to grant Focus on Energy the right to use your project information as described above without first obtaining your consent, please check the "Consent Required" box. Consent Required

E-mail or mail the completed Cash-Back Reward application to:
renewableapplications@focusonenergy.com

Focus on Energy, Attn: Renewable Energy Cash-Back Rewards, 431 Charmany Drive, Madison, WI 53719.
Questions regarding this application should be directed to Focus on Energy at 800.762.7077.



FULL SPECTRUM S O L A R

100 S. Baldwin Street, Suite 101
Madison, WI 53703
608-284-9495 tel/fax
info@fullspectrumssolar.com
www.fullspectrumssolar.com

SOLAR ENERGY SYSTEM QUOTATION

CUSTOMER: Robert Strous WI Department of Natural Resources			ENGINEER: Burke O'Neal	
			QUOTE NUMBER: 9958	DATE: 2009/11/4
			TERMS:	
W:			LEAD TIME: rack, inverter 1-2 months	
H:			VALID FOR: 30 days	
F:			SYSTEM TYPE: Photovoltaic	

SYSTEM DESCRIPTION: Foundation, trenching, wiring, new transformer support, infrastructure for PV system

QTY	DESCRIPTION
1	Treated wood platform for transformers
1	Electrical conduit, wire, etc.
1	All-terrain forklift rental
850	2" Sch. 80 PVC
850	#4 THWN
2550	#3/0 THWN
1	Shipping
1	Equipment to rebuild service, external AC Disconnect to meet MG&E Buyback
1	Trenching as specified
3	Quazite PG1730 BB30
3	Quazite PG1730 HAOO

NOTES: Installation price given includes all labor required to install and bring system on line. This includes handling of electrical permit, electrical inspection, and assisting with Focus Reward reservation and confirmation paperwork and utility paperwork.

Total job price	\$36,401.50
Estimated Focus Reward	
Est. Focus Reward	
TOTAL (LESS REBATE)	\$36,401.50
(Est. net final purchaser price after reward)	

Focus on Energy will normally pay the reward amount within 60 days of the date of receipt of final building inspection and claim form. This effectively means that the customer must pay the total job price and then wait about 60 days for the reward check from Focus on Energy.

Focus - quantity 7-8/wall -

A - Foundation/Trenching Full spectrum H & H
\$53,250* \$81,250

B - Purchase & Install \$75,895 \$96,200
(could subtract \$1,100 for Chinese Panels)
concern wire size

800' Inverted @ panel

Alternate Bid
Gravel base w/
Water Ballast Rock
total = \$92,298.00

~~Cut sheet?~~

+ 1,775 to fix transformer pedestal

~~Recommendations?
History?~~

~~Focus, Kesselman~~

~~Focus
Mark Lydon~~

Spaw - 1-3% some loss shading

Δ of pitch ≈ 5% diff -

Clean Power Partner Agreement

(PV Generation Interconnection Agreement 10 kW or Less)



This Clean Power Partner Agreement (the "Agreement") is made and entered into this 5th day of March, 2010, by and between Madison Gas and Electric Company, hereinafter called "MGE," and Wisconsin Department of Natural Resources, hereinafter called the "Applicant." MGE and the Applicant are hereinafter collectively referred to as the "Parties" and individually as "Party."

Recitals

- A. Applicant wishes to participate in MGE's Clean Power Partner Program. Through this program, Applicant will do the following:
- Install a photovoltaic generation (PVG) facility, including the related interconnection equipment (the "PVG Facility"), with a minimum capacity of 1 kW DC and a maximum capacity of 10 kW DC and sell to MGE the total electrical energy production of the system.
 - Sign up for Green Power Tomorrow, a renewable energy program offered by MGE in which participants must purchase renewable energy at a monthly level equal to at least 100% of Applicant's total PVG energy production.
- B. MGE is the owner of the electrical distribution system serving Applicant's property and wishes to enroll Applicant in the Clean Power Partner Program.
- C. Applicant has attached or sent previously to MGE a completed Green Power Tomorrow enrollment form as well as a completed Standard Distributed Generation Application Form (Generation 20 kW or less), PSC Form 6027 (the "Application"), a line diagram of the proposed PVG Facility and a proof of insurance certificate.
- D. The purpose of this Agreement is to clarify the obligations and responsibilities of Applicant in the Clean Power Partner Program and to reserve Applicant's place in the Experimental Photovoltaic Parallel Generation program set forth in the Pg-4 tariff approved by the Public Service Commission of Wisconsin.

Now therefore, in consideration of the foregoing and for good and valuable consideration, I agree to participate in the Clean Power Partner Program under the following conditions:

1. I understand the term "I" as used in this Agreement shall be construed to mean "we" and the term "me" or "my" as used in this Agreement shall be construed to mean "us" or "our," respectively, when appropriate to refer to more than one participant or owner, in which case the singular tense shall be construed as being plural. I understand that when appropriate any singular term in this Agreement shall be deemed to include the plural, and any plural term the singular.
2. I understand that in order to participate in the Clean Power Partner Program, I must be a retail electric customer of MGE and also take service under one of the renewable energy program tariffs (RWE-1 or BWE-1) at least at the level of AC energy produced by my PVG Facility on an annual basis. Copies of the RWE-1, BWE-1 and Pg 4 tariffs are available on MGE's Web site at www.mge.com.

(Continued next page.)

3. I understand that MGE must understand the operational specifications of the PVG Facility in order to ensure that it is in compliance with MGE requirements. The following information reflects the specifications of my PVG Facility:

PV Module Manufacturer: Sharp
Model No.: ND-224V1F
Nameplate DC kW of Module: 224
No. of Modules: 44
Total DC kW of Array: 9.86

4. I understand that this Agreement will become effective as of the date that MGE accepts this Agreement, as written below. I understand that I shall have twelve (12) months from the date of acceptance of this Agreement to interconnect and deliver energy to MGE based on the terms set forth in the Pg-4 tariff. This Agreement will remain in effect for ten (10) years, binding on successors and heirs, after the date the PVG Facility is interconnected, unless sooner terminated under the provisions in Wisconsin Administrative Code, Chapter PSC 119, including:
- (a) Upon Applicant's delivery of 30 days' written notice to MGE;
 - (b) Upon the mutual written agreement of the parties at any time; or
 - (c) Upon MGE's notice to Applicant that it has determined, in its sole discretion, that any of the following conditions has occurred:
 - i. Noncompliance with any technical or contractual requirements;
 - ii. Distribution system emergency;
 - iii. Routine maintenance, repairs and modifications, but only for a reasonable length of time necessary to perform the required work upon reasonable notice.
5. I understand that interconnection of the PVG Facility to MGE's distribution system requires prior approval and the execution of the Distributed Generation Interconnection Agreement (20 kW or less), PSC Form 6029, available from the Public Service Commission of Wisconsin. If a PVG Facility is connected to MGE's distribution system without MGE approval, MGE reserves the right to disconnect the PVG Facility immediately.
6. I understand that the purchase, installation, operation, maintenance, repair or replacement of my PVG Facility and all interconnection and safety equipment required to connect my PVG Facility with MGE's electric system will be my responsibility, provided at my cost and subject to all of the following requirements:
- (a) All interconnection and safety equipment must be listed by the Underwriters Laboratories (UL) or Electrical Testing Laboratories to the appropriate UL standards for grid-connected terrestrial power systems. All inverters must carry the UL 1741 label or meet the operating limits defined in PSC 119.
 - (b) I understand that I must furnish and install a two-meter socket or two-meter system to accommodate the customer generation and billing meters. The meter base must be located at the same vertical level as the billing meter and within one vertical foot or located as necessary to provide easy access to the billing and generation meter simultaneously.
 - (c) All PVG Facilities must be manufactured (if a packaged system) and installed in compliance with all requirements of the latest edition of the National Electric Code (American National Standards Institute/National Fire Protection Association-70).

(Continued next page.)

- (d) All installations must be permitted as required by law, certified by a licensed electrician and pass any applicable code inspections.
 - (e) All installations must comply with PSC 119 for interconnecting distributed generation facilities.
 - (f) PVG Facilities with backup battery systems are prohibited from inclusion in the Clean Power Partner Program.
7. I agree to give MGE, or its representatives, access to the site of the PVG Facility installation to conduct any reviews, inspections or testing required or allowed under PSC 119 for the purpose of ensuring the continued safe and satisfactory operation, but that such inspections shall not relieve me from my obligation to maintain the PVG Facility in a safe and satisfactory operating condition.
 8. I understand that any electric service provided to me will continue to be subject to all applicable rules, regulations and standard policies of MGE.
 9. I understand that MGE will have title to all renewable energy credits and benefits, emissions allowances or other renewable energy, air emissions or environmental benefits for which the PVG Facility qualifies under any existing or future applicable law relating to renewable energy projects. This includes, but is not limited to, any and all local, state, federal and/or international renewable resource credits, emissions credits and any other environmentally related credits that are, or in the future will be, recognized by any governmental authority and attributed to the production of energy from renewable power.
 10. The purpose of this Agreement is to set forth and clarify provisions of PSC 119 and the Pg-4 tariff that are binding on the Parties. Nothing in this Agreement is intended to contradict the provisions of the Wisconsin Administrative Code. In the event of any disagreement over the meaning of a provision contained in this Agreement vis-à-vis the provisions of PSC 119 or the Pg-4 tariff, PSC 119 and the Pg-4 tariff shall govern.
 11. I understand that each of the parties will indemnify and save harmless the other party against any and all damages to persons or property occasioned, without the negligence of such other party, by the maintenance and operation by such parties of their respective lines and other electrical equipment.
 12. Notices given under this Agreement shall be deemed to have been duly delivered if hand delivered or sent by United States Certified Mail, return receipt requested, postage prepaid, to:

If to me:

TIM PANZER
WDNR - RR/5
PO Box 7921
Madison, WI 53707

If to MGE:

Jeff Ford
Madison Gas and Electric Company
PO Box 1231
Madison, WI 53701-1231

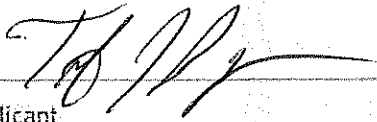
The above-listed names and addresses of either party may be changed by written notification to the other.

13. I may not assign this Agreement in whole or in part without the prior written consent of MGE, which consent will not be unreasonably withheld. If ownership of the site of the installation of the PVG Facility is transferred (or my tenancy in the site is terminated), I will notify MGE as soon as possible. MGE and I will agree upon the date on which this Agreement is either terminated or assigned to the subsequent owner or tenant for the remainder of the term of this Agreement. If the subsequent owner or tenant is willing and able to assume the obligations under this Agreement, MGE shall not withhold consent to the assignment.

(Continued next page.)

14. I understand that if I believe this Agreement or any requirement hereunder is unreasonable, I may appeal this matter to the Public Service Commission of Wisconsin.

If you are in agreement with the terms and conditions stated above, please (1) sign your name, state your address and provide the rated output of your system below; and (2) forward the Agreement to the MGE representative designated in paragraph 12.



Applicant

7562 USH 14, Middleton WI 53562
Address of Installation of PVG Site

If Applicant is not the owner of the residence or business, the owner must also sign this Agreement as set forth below:

I am the owner of the residence or business in which the generation meter will be installed. I have had the program explained to me, and I give my permission for the review of the interconnection for the PVG Facility at my property. I will permit use of the PVG Facility in the program as provided above. I will cooperate with the other parties participating in the program as set out in this Agreement.

Owner or Resident

To be completed by MGE:

Accepted and agreed to this day of _____, 20____

MADISON GAS AND ELECTRIC COMPANY

By: _____

Title: _____

Attachments to this Clean Power Partner Agreement:

- (1) Completed Green Power Tomorrow Enrollment Form
- (2) Line Drawing
- (3) Proof of Insurance
- (4) Standard Distributed Generation Application Form (Generation 20 kW or less) (PSC Form 6027)

Green Power Tomorrow Participation



To qualify for our Clean Power Partner program, customers generating solar power must purchase renewable energy from MGE's Green Power Tomorrow program at a monthly level of at least 100% of the solar energy produced. That means even though you are selling your solar-generated electricity to MGE customers, you will always be supporting renewable energy generation through the electricity you buy from MGE.

Your average electricity use per month is 4000 kWh.

Use the link at mge.com/averagecost to determine your average monthly electricity use.

Your estimated monthly solar electricity production is 12,300 kWh.

See Section 6b of your Application for your annual solar electricity production. Simply divide by 12 for your monthly production.

Indicate the amount of green power you wish to purchase below. The cost is \$0.01 per kWh extra.

100 % of my electricity use at this address. This amount is greater or equal to the electricity generated from my solar system. (Residential customers can select either 50% or 100%. Business customers can choose any whole percent: 1, 5, 22, 75, etc., up to 100%.)

 kWh each month. This amount is greater or equal to the average monthly electricity generated from my solar system, but does not exceed my total average electricity use. (Customers must select multiples of 300 kWh: 300, 600, 900, etc.)

MGE will monitor your green power purchase and your solar electricity sales to MGE to assure they meet program requirements. MGE will contact you if any adjustments are needed.

Check here if you would like MGE to credit your account at the end of each year the difference between your green power purchase and the amount of electricity you sell to MGE. This credit would be one cent per kWh and only applies if your green power purchase is greater than the amount of solar electricity generated.

Name: TIM PANZER E-mail address*: Timothy.Panzer@wisconsin.gov

Address: WDNR, PO Box 7921 - RR/5, Madison WI 53707

What is Green Power Tomorrow?

This is MGE's expanded renewable energy program available for customers who wish to purchase renewable energy from wind and solar for one cent extra per kilowatt-hour.

The renewable energy comes from new wind farms in Wisconsin and Iowa and from new local solar photovoltaic systems owned by MGE customers who have chosen to sell all their solar energy back to MGE through the Clean Power Partner program.

*I understand MGE will use this e-mail address to communicate messages about Green Power Tomorrow or Clean Power Partner.

Standard Distributed Generation Application Form (Generation 20 kW or less)

PSC-6027 R(03-04-04)

Distributed By

Name & Address

Jeff Ford
MG + E
P.O. Box 1231
Madison, WI 53701-1231

Supplied By

Name & Address

Public Service Commission of Wisconsin
P. O. Box 7854
Madison, WI 53707-7854

1. Contact Information – The applicant is the party that is legally responsible for the generating system

Applicant's Last

PANZER

First

TIM

Middle

J

Applicant's Mailing Address

WDNR
PO Box 7921 - RR/5
Madison WI 53707

Applicant's Phone Number

(608) 267 - 2465

E-mail Address

timothy.panzer@wisconsin.gov

Emergency Contact Numbers

Responsible Party's Day Phone

(608) 275 - 3286

Responsible Party's Evening Phone

(608) 267 - 2465

Responsible Party's Weekend Phone

(608) 275 - 3286

2. Location of the Generation System

Street Address

DNR Refuse Hideaway Landfill
7562 USH 14
Middleton WI 53562

Latitude - Longitude: (i.e. 49° 32' 06" N - 91° 64' 18" W) – optional

County

Dane

3. Electric Service Account Number

4. Applicant's Ownership Interest in the Generation System

Owner Co-owner Lease Other: _____

5. Primary Intent of the Generation System

Onsite use of power, or net energy billing Commercial power sales to a third party

6. Electricity Use, Production and Purchases

(a) Anticipated annual electricity consumption of the facility or site: 48,000 (kWh)/yr.
(b) Anticipated annual electricity production of the generation system: 12,300 (kWh)/yr.
(c) Anticipated annual electricity purchases (i.e., (a) minus (b)) 35,700 (kWh)/yr. *

* Value will be negative if there are net sales to the Public Utility.

7. Installing Contractor Information

Contractor's Last Name: O'Neal First Name: Burke Middle Initial:

Name of Firm: Full Spectrum Solar

Contractor's Phone Number: (608) 284-9995 E-mail Address: burke@fullspectrum solar.com

Mailing Address:
100 S. Baldwin St., Suite 101
Madison, WI 53703

8. Requested In-Service Date

3/10/10

9. Provide One-Line Schematic Diagram of the System:

Schematic is Attached Number of pages: 1

10. Generator/Inverter Information

Manufacturer: Fronius Model No.: IG 11.4-3 Plus
Version No.: Serial No.:

Generation Type (check one): Single Phase Three Phase Synchronous Induction Inverter Other: _____

Name Plate AC Ratings (check one): 10 kW _____ kVA 240 volts Δ

Primary Energy Source: PV Modules

Note: If there is more than one generator and/or inverter, attach an additional sheet describing each.

11. Site Plan Showing Location of the External Disconnect Switch (attach additional sheets as needed)

see attached

12. Liability Insurance

Carrier	Limits
State of Wisconsin	
Agent Name	Phone Number
	() - -

The Applicant, (Site Owner or Operator, if different) shall provide a Certificate of Insurance, both demonstrating that this liability insurance is in place.

13. Design Requirements

- (a) Has the proposed distributed generation paralleling equipment been certified? Y N
- (b) If not certified, does the proposed distributed generator meet the operating limits defined Wis. Admin. Code chapter PSC 119? Y N

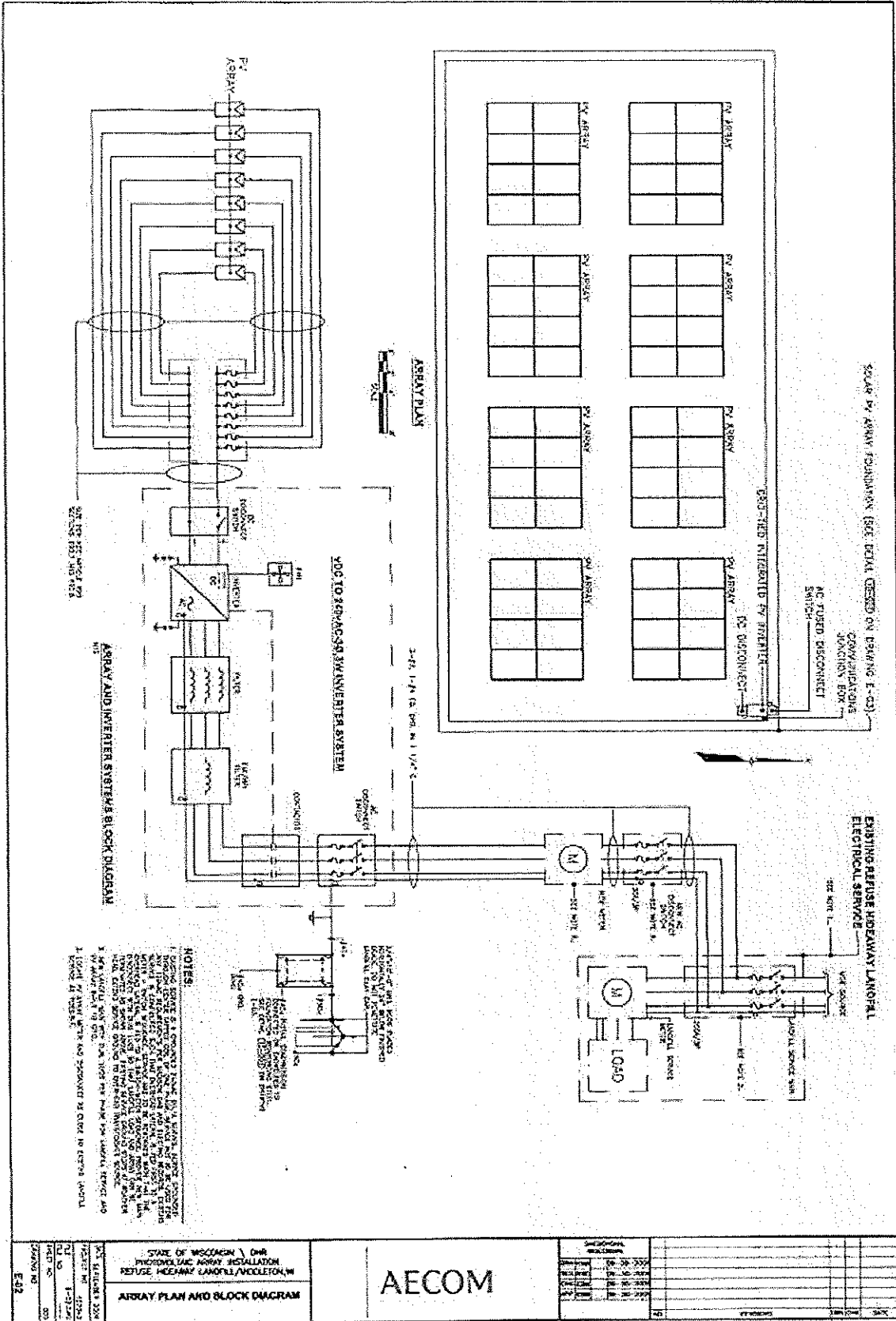
For items 13(a) and 13(b), if your answer is yes, please furnish details (e.g., copies of manufacturer's specifications). If you do not know the answer, it is recommended you contact the equipment manufacturer for the answer and provide the same with the completed application.

14. Other Comments, Specification and Exceptions (attach additional sheets if needed)

15. Applicant and Installer Signature

To the best of my knowledge, all the information provided in this Application Form is complete and correct.

Applicant Signature	Date
	4/15/10
Installer Signature	Date
	3/4/10



AECOM

STATE OF WISCONSIN / DHS PHOTOVOLTAIC ENERGY REGULATION REFUSE ROADWAY LANOFAL/ACCUMULATION	PROJECT NO. 107245	DATE 04/13/09	SCALE
ARRAY PLAN AND BLOCK DIAGRAM	DESIGNED BY [Name]	CHECKED BY [Name]	DATE 04/13/09
PROJECT NO. 107245	DATE 04/13/09	SCALE	
DESIGNED BY [Name]	CHECKED BY [Name]	DATE 04/13/09	

**WISCONSIN DEPARTMENT OF
ADMINISTRATION****JIM DOYLE**
GOVERNOR**MICHAEL L. MORGAN**
SECRETARYDivision of Enterprise Operations
Bureau of State Risk Management
Post Office Box 77008
Madison, WI 53707-1008
Voice (608) 267-7395
Fax (608) 264-8250**Date:** May 6, 2010**To:** MG&E
PO Box 1231
Madison, WI 53701**Re:** Certificate of Protection in Lieu of an Insurance Policy**For:** Installation of 2 Photovoltaic Arrays and associated equipment at the
Refuse Hideaway Landfill, 7562 US Highway 14, Middleton, WI 53562**To Whom It May Concern:**

This is to certify that the Wisconsin Department of Natural Resources is protected by the State of Wisconsin Self-Funded Liability and Property Programs. Section 20.505 (2) (k), Wisconsin Statutes, provides funds to pay liability and property claims. In addition, section 895.46 provides that the state will pay judgments taken against state officers or employees for acts carried out while the officers or employees were acting within the scope of their employment.

Please accept this as evidence of protection for applicable liability claims brought against the state, its officers or employees and damage to property for which the state may be responsible. If you need any further assistance, please feel free to contact this office.

This certificate applies only to state officers, agents, and employees; it does not apply to independent contractors; and issuance of the certificate does not waive any duty of a contractor to acquire liability insurance.

Sincerely,

Sherry Rowin KJK
Sherry Rowin
Property & Liability Manager
Bureau of State Risk Management

cc: Tim Panzer, DNR

From: Burke O'Neal <burke@fullspectrum solar.com>
 Subject: Quote for upsizing to 2" Conduit
 Date: November 24, 2009 9:41:03 AM CST
 To: "Strous Jr, Robert E - DNR" <Robert.StrousJr@Wisconsin.gov>
 1 Attachment, 84.1 KB



Hi Bob,

The quotes I sent for reserving the Focus Reward, which are referenced in the Contract, did not include the extra charge for upsizing the conduit. Attached is a quote for the larger conduit. I am going to sign the Contract and assume we can sign another purchase order or change order for the larger conduit. We are planning on doing the gravel work next week.

Sincerely,

Burke

Burke O'Neal, B.S.M.E.
 Director

Full Spectrum Solar
 100 S. Baldwin Street, Suite 101
 Madison, WI 53703
 (608) 284-8495



100 S. Baldwin Street, Suite 101
 Madison, WI 53703
 608-284-8495 tel/fax
 info@fullspectrum solar.com
 www.fullspectrum solar.com

SOLAR ENERGY SYSTEM QUOTATION

CUSTOMER: Robert Strous WI Department of Natural Resources		ENGINEER: Burke O'Neal	DATE: 2009/11/24
		QUOTE NUMBER: 9966	
		TERMS:	
		LEAD TIME:	
		VALID FOR: 30 days	
		SYSTEM TYPE: NS	

SYSTEM DESCRIPTION: Upgrade to 2" Schedule 80 PVC for second conduit

QTY	DESCRIPTION
1	2" Schedule 80 PVC, instead of specified for second conduit to array location

NOTES: Installation price given includes all labor required to install and bring system on line. This includes handling of electrical permit, electrical inspection, and assisting with Focus Reward reservation and confirmation paperwork and utility paperwork.

Total job price	\$300.00
Estimated Focus Reward	
Est. Focus Reward	
TOTAL (LESS REBATE)	\$300.00
(Est. net final purchaser price after rebate)	

From: "Strous Jr, Robert E - DNR" <Robert.StrousJr@Wisconsin.gov>
Subject: RE: Conduits
Date: November 12, 2009 1:34:33 PM CST
To: Burke O'Neal <burke@fullspectrum solar.com>

Burke,
It sounds like a larger conduit would be preferable. Could you provide the difference in cost? I suspect the installation cost would be pretty much the same...
thanks, Bob

-----Original Message-----
From: Moe, Gene [mailto:GENE.MOE@aecom.com]
Sent: Thursday, November 12, 2009 1:31 PM
To: Strous Jr, Robert E - DNR; Burke O'Neal
Cc: Henderson, Dave
Subject: RE: Conduits

I think that 800 feet is a long distance for a 1 inch conduit (spare if control cable is needed to monitor the PV system at some point near the service). I would consider 1-1/2 or 2 inch conduit to ease installation of any cabling in the future if the cost was not impacted significantly.

Eugene Moe
AECOM
D 920.451.2679 C 920.918.5362
gene.moe@aecom.com

-----Original Message-----
From: Strous Jr, Robert E - DNR [mailto:Robert.StrousJr@Wisconsin.gov]
Sent: Thursday, November 12, 2009 12:43 PM
To: Burke O'Neal
Cc: Moe, Gene; Henderson, Dave
Subject: RE: Conduits

I'll need to check with engineer. What do you think Gene?
Thanks, Bob

-----Original Message-----
From: Burke O'Neal [mailto:burke@fullspectrum solar.com]
Sent: Thursday, November 12, 2009 12:27 PM
To: Strous Jr, Robert E - DNR
Subject: Conduits

Hi Bob,

Do you still want just a 1" second conduit?

Burke

Burke O'Neal, B.S.M.E.
Director

Full Spectrum Solar
100 S. Baldwin Street, Suite 101
Madison, WI 53703
(608) 284-9495



Madison Gas and Electric Company
P.O. Box 1231
Madison, WI 53701-1231
608-252-7000

your community energy company

June 3, 2010

Mr. Tim Panzer
Department of Natural Resources Refuse Hideaway Landfill
P.O. Box 7921
Madison, Wisconsin 53707

Dear Mr. Panzer:

Enclosed please find a signed copy of your Distributed Generation Interconnection Agreement for your records. You may begin operation of your photovoltaic system at any time.

Best regards,

A handwritten signature in black ink, appearing to read 'JRF', is written over the typed name.

Jeffrey R. Ford
Senior Market Analyst - Forecasting and
Optimization

art/Enclosure

cc: Burke O'Neal, Full Spectrum Solar

Received

JUN 7 2010

**REMEDICATION &
REDEVELOPMENT**

Distributed Generation Interconnection Agreement (20 kW or less)

PSC-6029 R(04-19-04)

Name & Address

MADISON CAP & ELECTRIC
P.O. BOX 1231
MADISON, WI 53701-1231

Name & Address

Public Service Commission of Wisconsin
P. O. Box 7854
Madison, WI 53707-7854

This Distributed Generation Interconnection Agreement (the "Agreement"), is made and entered

into this 17th (day) of MAY (month), 2010 (year) by and between

MGE hereinafter called "Public Utility" and DEPT. OF NATURAL RESOURCES hereinafter called the "Applicant." Public Utility and the Applicant are hereinafter collectively referred to as the "Parties" and individually as a "Party."

Recitals

- A. Public Utility is the owner of the electric distribution system serving 7562 W.S. HIGHWAY 14
Middleton WI 53562 (Insert legal description of property or address) ("Public Utility's Distribution System").
- B. Applicant desires to install a Distributed Generation (DG) facility or energy storage device with a capacity up to 20 kW, including related interconnection equipment (the "DG Facility") and to interconnect the DG Facility to Public Utility's Distribution System.
- C. Public Utility has previously reviewed and approved Applicant's DG Interconnection Application Form (PSC 6027), dated 4/15/10, and supporting materials (the "Application"). The completed Application is attached as Exhibit 1 and incorporated into this Agreement.
- D. Applicant wishes to interconnect the DG Facility to Public Utility's Distribution System and Public Utility is willing to permit such interconnection subject to the terms and conditions set forth in: (1) Wisconsin Administrative Code Chapter PSC 119; (2) the completed Application approved by Public Utility; and (3) this Agreement.
- E. No agency or partnership is created with the interconnection of the applicant's DG Facility.

Agreement

NOW THEREFORE, in consideration of the foregoing Recitals and for good and valuable consideration, the Public Utility and Applicant agree as follows:

1. Design Requirements.

The DG Facility shall be installed in compliance with Wisconsin Administrative Code Chapter PSC 119.

2. Applicant's Representations and Warranties.

Applicant represents and warrants that:

- a. the DG Facility is fully and accurately described in the Application;
- b. all information in the Application is true and correct;
- c. the DG Facility has been installed to Applicant's satisfaction;
- d. Applicant has been given warranty information and an operation manual for the DG Facility; and
- e. Applicant has been adequately instructed in the operation and maintenance of the DG Facility.

3. Interconnection Disconnect Switch.

The Public Utility may require that the Applicant furnish and install an interconnection disconnect switch that opens, with a visual break, all ungrounded poles of the interconnection circuit. The interconnection disconnect switch shall be rated for the voltage and fault current requirements of the DG Facility, and shall meet all applicable UL, ANSI, and IEEE standards, as well as applicable requirements of the Wisconsin State Electrical Code, Volume 2, Wis. Adm. Code Chapter Comm 16. The switch enclosure shall be properly grounded. The interconnection disconnect switch shall be accessible at all times, located for ease of access to Public Utility personnel, and shall be capable of being locked in the open position. The Applicant shall follow the Public Utility's recommended switching, clearance, tagging, and locking procedures.

4. Modifications to the DG Facility.

Applicant shall notify Public Utility of plans for any material modification to the DG Facility by providing at least twenty (20) working days advance notice. A "material modification" is defined as any modification that changes the maximum electrical output of the DG Facility or changes the interconnection equipment (e.g., changing from certified to non-certified devices or replacement of any component with a component of different functionality or UL listing). The notification shall consist of a completed, revised Application and such supporting materials as may be reasonably requested by Public Utility. Applicant agrees not to commence installation of any material modification to the DG Facility until Public Utility has approved the revised Application. The Public Utility shall indicate its written approval or rejection of any revised Application within twenty (20) working days after it receives the completed application and all supporting materials.

5. Insurance.

Throughout the term of this Agreement, Applicant shall carry the following insurance:

A liability insurance policy that provides protection against claims for damages resulting from (i) bodily injury, including wrongful death; and (ii) property damage arising out of Applicant's ownership and/or operation of the DG Facility under this Agreement. The limits of such policy shall be at least \$300,000 per occurrence or prove financial responsibility by another method acceptable, and approved in writing, to Public Utility. The failure of the Applicant or Public Utility to enforce the minimum levels of insurance does not relieve the Applicant from maintaining such levels of insurance or relieve Applicant of any liability. Prior to execution of this Agreement applicant shall provide Public Utility with a certificate of insurance containing a minimum 30-day notice of cancellation.

6. Indemnification.

Subject to the limitations set forth in this Section, and to the extent allowable by law, each Party to this Agreement shall indemnify, hold harmless and defend the other Party, its officers, directors, employees and agents from and against any and all claims, suits, liabilities, damages, costs and expenses (including without limitation, reasonable attorneys and expert witness fees) for damage to property, or injury to, or death of, any individual, including the employees, officers, directors and agents of the indemnified Party or any other third parties, to the extent caused wholly or in part by the negligence or the intentional wrongdoing of the indemnifying Party. Notwithstanding anything in this Section or in any other provision of this Agreement to the contrary, the liability of each Party to this Agreement shall be limited to direct actual damages, and all other damages at law or in equity are hereby waived. Under no circumstances shall a Party be liable to the other Party, whether in tort, contract or other basis in law or equity for any special, indirect, punitive, exemplary, or consequential damages, including lost profits. Applicant's and Public Utility's indemnification obligations under this Section and the limits upon their respective liability shall continue in full force and effect notwithstanding the expiration or termination of this Agreement with respect to any event or condition giving rise to an indemnification obligation that occurred prior to such expiration or termination.

7. DG Facility Commissioning Testing.

Applicant shall notify Public Utility in writing that installation of the DG Facility is complete and that the interconnection equipment is available for testing by Public Utility at least fifteen (15) working days before Applicant interconnects the DG Facility with Public Utility's Distribution System. Public Utility shall thereupon have the right to test the DG Facility. Public Utility shall also have the right to witness any testing by Applicant of the DG Facility. Any Public Utility testing of the DG Facility shall be completed within ten (10) working days. If Public Utility waives its right to test the installed DG Facility by notifying Applicant in accordance with this Section, Applicant may interconnect the DG Facility to Public Utility's Distribution System upon the earlier to occur of the following: (a) notification by Public Utility; or (b) fifteen (15) working days after Applicant has notified Public Utility that installation of the DG Facility is complete.

8. Access to DG Facility.

Applicant shall permit (and, if the land on which the DG Facility is located is not owned by Applicant, cause such land owner to permit) Public Utility's employees and agents to enter the property on which the DG Facility is located at any reasonable time for the purposes of inspecting and/or testing Applicant's DG Facility to insure its continued safe and satisfactory operation and the accuracy of Public Utility's meters. Such inspections shall not relieve Applicant from its obligation to maintain the DG Facility and any related equipment owned by Applicant in safe and satisfactory operating condition.

Public Utility shall have the right to witness any testing by Applicant of the DG Facility.

9. Disconnection of a DG Facility to Permit Maintenance and Repairs.

Upon reasonable notice by Public Utility, Applicant shall disconnect the DG Facility to permit Public Utility to perform routine repairs and maintenance to Public Utility's Distribution System, or to install modifications thereto.

10. Disconnection of a DG Facility without Notice.

When Public Utility so requests, Applicant shall discontinue operation of the DG Facility and Public Utility may isolate the DG Facility from Public Utility's Distribution System, upon any of the following:

- a. Termination of this Agreement;
- b. If, in Public Utility's reasonable judgment, the DG Facility fails to comply with the Design Requirements specified in Wisconsin Administrative Code §§ PSC 119.20 and PSC 119.25.
- c. In the event of an emergency on Public Utility's Distribution System; or
- d. Upon any other breach of this Agreement by Applicant (a "Default"), that Applicant fails to remedy within ten (10) working days after receipt of written notice from Public Utility.

In the event of such disconnection, pursuant to b, c, or d above, the DG Facility shall remain isolated from Public Utility's Distribution System until, in the reasonable judgment of Public Utility, the DG Facility meets the Design Requirements, Applicant has cured any Default, and Public Utility's Distribution System is functioning in a safe manner. If Applicant fails to cure a Default within sixty (60) working days, Public Utility shall further have the right to terminate this Agreement without liability to Applicant for such termination.

11. Disputes; Right to Appeal to PSCW.

Nothing in this agreement prevents Applicant from filing a petition with the Public Service Commission of Wisconsin to appeal any requirement imposed by Public Utility as a condition to interconnection of the DG Facility, that Applicant alleges is unreasonable.

12. Amendments; Non-Waiver.

Any amendment or modification to this Agreement must be in writing and executed by Applicant and Public Utility. The failure of Applicant or Public Utility to insist on performance by the other Party of any provision of this Agreement shall not waive the right of the Party who failed to insist on performance to enforce the same provision at a later time.

13. Term of Agreement.

This Agreement shall become effective immediately upon the execution, by the Parties, and shall continue in effect until terminated by any of the following:

- a. Mutual written agreement of the Parties;
- b. Abandonment or removal of the DG Facility by Applicant;
- c. By Public Utility pursuant to Section 10 of this Agreement;
- d. By Applicant upon thirty (30) working days prior written notice given to the Public Utility.

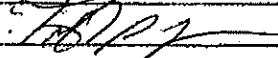
14. Successors and Assigns.

- a. Assignment by Applicant. Applicant shall not assign its rights and obligations under this Agreement in whole or in part without the prior written consent of Public Utility, which consent shall not be unreasonably withheld or unduly delayed. Public Utility may withhold its consent to any proposed assignment if the proposed assignee fails to assume the obligations of Applicant under this Agreement in writing.
- b. Assignment by Public Utility. The utility shall have the right to assign this Agreement in whole upon written notification to the Applicant.
- c. Successors. This Agreement shall be binding upon the personal representatives, heirs, successors, and permitted assigns of the respective Parties.

15. Applicant and Public Utility Signature.

IN WITNESS WHEREOF, Applicant and Public Utility have executed this Agreement as of the year and date first set forth above.

Applicant Signature



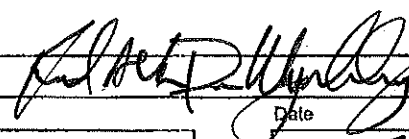
Title

FISCAL & IT Section Chief

Date

17 MAY 2010

Public Utility

MADISON GAS & ELECTRIC 

Title

ENG TECH IV

Date

5-24-10

Tim, As I noted previously, your GPT participation will be covered by the State of Wisconsin participation JH

Green Power Tomorrow Participation



green power tomorrow
choose renewable energy today

To qualify for our Clean Power Partner program, customers generating solar power must purchase renewable energy from MGE's Green Power Tomorrow program at a monthly level of at least 100% of the solar energy produced. That means even though you are selling your solar-generated electricity to MGE customers, you will always be supporting renewable energy generation through the electricity you buy from MGE.

Your average electricity use per month is 4000 kWh.

Use the link at mge.com/averagecost to determine your average monthly electricity use.

Your estimated monthly solar electricity production is 12,300 kWh.

See Section 6b of your Application for your annual solar electricity production. Simply divide by 12 for your monthly production.

Indicate the amount of green power you wish to purchase below. The cost is \$0.01 per kWh extra.

100 % of my electricity use at this address. This amount is greater or equal to the electricity generated from my solar system. (Residential customers can select either 50% or 100%. Business customers can choose any whole percent: 1, 5, 22, 75, etc... up to 100%.)

 kWh each month. This amount is greater or equal to the average monthly electricity generated from my solar system, but does not exceed my total average electricity use. (Customers must select multiples of 300 kWh: 300, 600, 900, etc.)

MGE will monitor your green power purchase and your solar electricity sales to MGE to assure they meet program requirements. MGE will contact you if any adjustments are needed.

Check here if you would like MGE to credit your account at the end of each year the difference between your green power purchase and the amount of electricity you sell to MGE. This credit would be one cent per kWh and only applies if your green power purchase is greater than the amount of solar electricity generated.

Name: TIM PANZER E-mail address: Timothy.Panzer@wisconsin.gov

Address: WDNR, PO Box 7921 - RR/5, Madison WI 53707

What is Green Power Tomorrow?

This is MGE's expanded renewable energy program available for customers who wish to purchase renewable energy from wind and solar for one cent extra per kilowatt-hour.

The renewable energy comes from new wind farms in Wisconsin and Iowa and from new local solar photovoltaic systems owned by MGE customers who have chosen to sell all their solar energy back to MGE through the Clean Power Partner program.

*I understand MGE will use this e-mail address to communicate messages about Green Power Tomorrow or Clean Power Partner.



Madison Gas and Electric Company
P.O. Box 1231
Madison, WI 53701-1231
608-252-7000

your community energy company

June 3, 2010

Mr. Tim Panzer
Department of Natural Resources Refuse Hideaway Landfill
Post Office Box 7921
Madison, Wisconsin 53707

Dear Mr. Panzer:

I'm happy to welcome you as a Clean Power Partner.

We have reviewed your application for our Clean Power Partner Program and everything is in order. Enclosed please find a signed copy of the Clean Power Partner Agreement along with copies of your Green Power Tomorrow Participation form and your Standard Distributed Generation Application Form for your records.

If you have any questions, feel free to call me at 252-7387.

Best regards,

Jeffrey R. Ford
Senior Market Analyst - Forecasting and
Optimization

art/Enclosures

cc: Burke O'Neal, Full Spectrum Solar

** voided, per email*

Received

JUN 7 2010

**REMEDICATION &
REDEVELOPMENT**

Clean Power Partner Agreement

(PV Generation Interconnection Agreement 10 kW or Less)



This Clean Power Partner Agreement (the "Agreement") is made and entered into this 5th day of March, 2010, by and between Madison Gas and Electric Company, hereinafter called "MGE," and Wisconsin Department of Natural Resources, hereinafter called the "Applicant." MGE and the Applicant are hereinafter collectively referred to as the "Parties" and individually as "Party."

Recitals

- A. Applicant wishes to participate in MGE's Clean Power Partner Program. Through this program, Applicant will do the following:
- Install a photovoltaic generation (PVG) facility, including the related interconnection equipment (the "PVG Facility"), with a minimum capacity of 1 kW DC and a maximum capacity of 10 kW DC and sell to MGE the total electrical energy production of the system.
 - Sign up for Green Power Tomorrow, a renewable energy program offered by MGE in which participants must purchase renewable energy at a monthly level equal to at least 100% of Applicant's total PVG energy production.
- B. MGE is the owner of the electrical distribution system serving Applicant's property and wishes to enroll Applicant in the Clean Power Partner Program.
- C. Applicant has attached or sent previously to MGE a completed Green Power Tomorrow enrollment form as well as a completed Standard Distributed Generation Application Form (Generation 20 kW or less), PSC Form 6027 (the "Application"), a line diagram of the proposed PVG Facility and a proof of insurance certificate.
- D. The purpose of this Agreement is to clarify the obligations and responsibilities of Applicant in the Clean Power Partner Program and to reserve Applicant's place in the Experimental Photovoltaic Parallel Generation program set forth in the Pg-4 tariff approved by the Public Service Commission of Wisconsin.

Now therefore, in consideration of the foregoing and for good and valuable consideration, I agree to participate in the Clean Power Partner Program under the following conditions:

- I understand the term "I" as used in this Agreement shall be construed to mean "we" and the term "me" or "my" as used in this Agreement shall be construed to mean "us" or "our," respectively, when appropriate to refer to more than one participant or owner, in which case the singular tense shall be construed as being plural. I understand that when appropriate any singular term in this Agreement shall be deemed to include the plural, and any plural term the singular.
- I understand that in order to participate in the Clean Power Partner Program, I must be a retail electric customer of MGE and also take service under one of the renewable energy program tariffs (RWE-1 or BWE-1) at least at the level of AC energy produced by my PVG Facility on an annual basis. Copies of the RWE-1, BWE-1 and Pg 4 tariffs are available on MGE's Web site at www.mge.com.

(Continued next page.)

3. I understand that MGE must understand the operational specifications of the PVG Facility in order to ensure that it is in compliance with MGE requirements. The following information reflects the specifications of my PVG Facility:

PV Module Manufacturer: Sharp
Model No.: ND-224-V1F
Nameplate DC kW of Module: 224
No. of Modules: 4
Total DC kW of Array: 9.86

4. I understand that this Agreement will become effective as of the date that MGE accepts this Agreement, as written below. I understand that I shall have twelve (12) months from the date of acceptance of this Agreement to interconnect and deliver energy to MGE based on the terms set forth in the Pg-4 tariff. This Agreement will remain in effect for ten (10) years, binding on successors and heirs, after the date the PVG Facility is interconnected, unless sooner terminated under the provisions in Wisconsin Administrative Code, Chapter PSC 119, including:

- (a) Upon Applicant's delivery of 30 days' written notice to MGE;
- (b) Upon the mutual written agreement of the parties at any time; or
- (c) Upon MGE's notice to Applicant that it has determined, in its sole discretion, that any of the following conditions has occurred:
 - i. Noncompliance with any technical or contractual requirements;
 - ii. Distribution system emergency;
 - iii. Routine maintenance, repairs and modifications, but only for a reasonable length of time necessary to perform the required work upon reasonable notice.

5. I understand that interconnection of the PVG Facility to MGE's distribution system requires prior approval and the execution of the Distributed Generation Interconnection Agreement (20 kW or less), PSC Form 6029, available from the Public Service Commission of Wisconsin. If a PVG Facility is connected to MGE's distribution system without MGE approval, MGE reserves the right to disconnect the PVG Facility immediately.

6. I understand that the purchase, installation, operation, maintenance, repair or replacement of my PVG Facility and all interconnection and safety equipment required to connect my PVG Facility with MGE's electric system will be my responsibility, provided at my cost and subject to all of the following requirements:

- (a) All interconnection and safety equipment must be listed by the Underwriters Laboratories (UL) or Electrical Testing Laboratories to the appropriate UL standards for grid-connected terrestrial power systems. All inverters must carry the UL 1741 label or meet the operating limits defined in PSC 119.
- (b) I understand that I must furnish and install a two-meter socket or two-meter system to accommodate the customer generation and billing meters. The meter base must be located at the same vertical level as the billing meter and within one vertical foot or located as necessary to provide easy access to the billing and generation meter simultaneously.
- (c) All PVG Facilities must be manufactured (if a packaged system) and installed in compliance with all requirements of the latest edition of the National Electric Code (American National Standards Institute/National Fire Protection Association-70).

(Continued next page.)

- (d) All installations must be permitted as required by law, certified by a licensed electrician and pass any applicable code inspections.
 - (e) All installations must comply with PSC 119 for interconnecting distributed generation facilities.
 - (f) PVG Facilities with backup battery systems are prohibited from inclusion in the Clean Power Partner Program.
7. I agree to give MGE, or its representatives, access to the site of the PVG Facility installation to conduct any reviews, inspections or testing required or allowed under PSC 119 for the purpose of ensuring the continued safe and satisfactory operation, but that such inspections shall not relieve me from my obligation to maintain the PVG Facility in a safe and satisfactory operating condition.
 8. I understand that any electric service provided to me will continue to be subject to all applicable rules, regulations and standard policies of MGE.
 9. I understand that MGE will have title to all renewable energy credits and benefits, emissions allowances or other renewable energy, air emissions or environmental benefits for which the PVG Facility qualifies under any existing or future applicable law relating to renewable energy projects. This includes, but is not limited to, any and all local, state, federal and/or international renewable resource credits, emissions credits and any other environmentally related credits that are, or in the future will be, recognized by any governmental authority and attributed to the production of energy from renewable power.
 10. The purpose of this Agreement is to set forth and clarify provisions of PSC 119 and the Pg-4 tariff that are binding on the Parties. Nothing in this Agreement is intended to contradict the provisions of the Wisconsin Administrative Code. In the event of any disagreement over the meaning of a provision contained in this Agreement vis-à-vis the provisions of PSC 119 or the Pg-4 tariff, PSC 119 and the Pg-4 tariff shall govern.
 11. I understand that each of the parties will indemnify and save harmless the other party against any and all damages to persons or property occasioned, without the negligence of such other party, by the maintenance and operation by such parties of their respective lines and other electrical equipment.
 12. Notices given under this Agreement shall be deemed to have been duly delivered if hand delivered or sent by United States Certified Mail, return receipt requested, postage prepaid, to:

If to me:

TIM PANZER
WDNR RR/S
PO Box 7921
Madison, WI 53707

If to MGE:

Jeff Ford
Madison Gas and Electric Company
PO Box 1231
Madison, WI 53701-1231

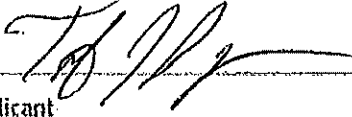
The above-listed names and addresses of either party may be changed by written notification to the other.

13. I may not assign this Agreement in whole or in part without the prior written consent of MGE, which consent will not be unreasonably withheld. If ownership of the site of the installation of the PVG Facility is transferred (or my tenancy in the site is terminated), I will notify MGE as soon as possible. MGE and I will agree upon the date on which this Agreement is either terminated or assigned to the subsequent owner or tenant for the remainder of the term of this Agreement. If the subsequent owner or tenant is willing and able to assume the obligations under this Agreement, MGE shall not withhold consent to the assignment.

(Continued next page.)

14. I understand that if I believe this Agreement or any requirement hereunder is unreasonable, I may appeal this matter to the Public Service Commission of Wisconsin.

If you are in agreement with the terms and conditions stated above, please (1) sign your name, state your address and provide the rated output of your system below; and (2) forward the Agreement to the MGE representative designated in paragraph 12.


Applicant

7562 USH 14, Middleton WI 53562

Address of Installation of PVG Site

If Applicant is not the owner of the residence or business, the owner must also sign this Agreement as set forth below:

I am the owner of the residence or business in which the generation meter will be installed. I have had the program explained to me, and I give my permission for the review of the interconnection for the PVG Facility at my property. I will permit use of the PVG Facility in the program as provided above. I will cooperate with the other parties participating in the program as set out in this Agreement.

Owner or Resident

To be completed by MGE:

Accepted and agreed to this day of June 2, 2010

MADISON GAS AND ELECTRIC COMPANY

By: 

Title:

Attachments to this Clean Power Partner Agreement:

- (1) Completed Green Power Tomorrow Enrollment Form
- (2) Line Drawing
- (3) Proof of Insurance
- (4) Standard Distributed Generation Application Form (Generation 20 kW or less) (PSC Form 6027)

**WISCONSIN DEPARTMENT OF NATURAL RESOURCES
DNR REQUEST AND CERTIFICATION FOR PAYMENT**

Division of Lands
Bureau of Facilities & Lands
101 S. Webster St., PO Box 7921, Madison WI 53707

Project Name: PHOTOVOLTAIC PURCHASE & INSTALLATION	Period Covered	Project No: RRSP
Property: REFUSE HIGHWAY LANDFILL		Contract No.: 953
Location:	Partial/Final	Project Manager: Sanjay Olson
Type of Work:	Page of	Processor:

STATEMENT OF VALUE OF WORK PERFORMED

Approved Cost-Breakdown Items Plus Approved Change Orders	Amount of Contract		Earned this Period		%	Total Earned		Balance to Complete	
construction contract	57,761	50	57,761	50	100	57,761	50	0	
2" schedule 80 PVC c.o. (see attached email)	300	00	300	00	100	300	00	0	
TOTALS All Pages thru									

1. AMOUNT OF CONTRACT	\$ 57,761.50	Next Energy, LLC DBA Full Spectrum solar
2. ADD: Change Orders	300.00	COMPANY NAME
3. TOTAL	58,061.50	100 S. Baldwin St, Suite 101
4. DEDUCT: Change Orders		STREET ADDRESS
5. NET CONTRACT OBLIGATIONS	58,061.50	Madison WI 53703
6. VALUE OF WORK PERFORMED (Total Earned)	58,061.50	CITY STATE ZIP
7. TOTAL AMOUNT RETAINED	0	I certify that this account is just and correct, and that payment has not been received.
8. TOTAL PAYMENTS DUE (6 MINUS 7)	58,061.50	APPROVED <u>Sanjay Olson</u> 5/26/10
9. PREVIOUSLY SUBMITTED	0	CONTRACTORS SIGNATURE Date
10. DUE THIS CERTIFICATE	58,061.50	I certify that this request is just & correct.
11. BALANCE (5 MINUS 8)	\$ 0	Engineer Date
		THIS IS TO CERTIFY THAT THE ABOVE NAMED CONTRACTOR IS ENTITLED TO PAYMENT REQUESTED
		APPROVED _____ Date
		Engineering Section Date

**WISCONSIN DEPARTMENT OF NATURAL RESOURCES
DNR REQUEST AND CERTIFICATION FOR PAYMENT**

Department of Lands
Department of Facilities & Lands
10 Webster St., PO Box 7921, Madison WI 53707

Project Name: FOUNDATION SUPPORT & CONNECTION WORK FOR PV ARRAY	Period Covered	Project No: RRSP
Property: REFUSE HIDEWAY LANDFILL		Contract No.: 954
Location:	Partial/Final	Project Manager: Sanjay Olson
Type of Work:		Processor:

STATEMENT OF VALUE OF WORK PERFORMED

Approved Cost-Breakdown Items Plus Approved Change Orders	Amount of Contract		Earned this Period		%	Total Earned		Balance to Complete	
construction contract	36,401	50	36,401	50	100	36,401	50	0	
TOTALS: All Pages thru.									

1. AMOUNT OF CONTRACT	\$ 36,401.50	COMPANY NAME
2. ADD: Change Orders		STREET ADDRESS
3. TOTAL	36,401.50	CITY STATE ZIP
4. DEDUCT: Change Orders		I certify that this account is just and correct, and that payment has not been received.
5. NET CONTRACT OBLIGATIONS	36,401.50	
6. VALUE OF WORK PERFORMED (Total Earned)	36,401.50	APPROVED <i>[Signature]</i> 9/26/10 CONTRACTORS SIGNATURE Date
7. TOTAL AMOUNT RETAINED	0	I certify that this request is just & correct.
8. TOTAL PAYMENTS DUE (6 MINUS 7)	36,401.50	
9. PREVIOUSLY SUBMITTED	0	Engineer Date
10. DUE THIS CERTIFICATE	36,401.50	THIS IS TO CERTIFY THAT THE ABOVE NAMED CONTRACTOR IS ENTITLED TO PAYMENT REQUESTED
11. BALANCE (5 MINUS 8)	\$ 0	

APPROVED _____
Engineering Section Date



Received

June 3, 2010

JUN 4 2010

REMEDICATION &
REDEVELOPMENT

Tim Panzer
Wisconsin Department of Natural Resources
PO Box 7921
Madison, WI 53707-7921

RE: Project Completion Notice (DNR - US HWY 14 Middleton Site - Solar Electric #26711)

Dear Tim:

I have the Project Completion Notice for you to sign for the Focus on Energy Implementation Grant – Project #26711 for an incentive amount of \$25,134.00

Please complete the addendum, sign the Project Completion Notice and return them to me in the enclosed envelope along with a final copy of the project Invoice when the project is complete.

Upon my receipt of the addendum, notice and invoice for the project, the final documents are executed and you can then expect payment within approximately 90 days. Payment will arrive addressed to you, via US Mail, from the Wisconsin Energy Conservation Corporation (WECC), which administrates the Focus on Energy Schools and Government Program.

Should you have any questions or concerns, please feel free to contact Neil Howell at email address nhowell@cesa10.k12.wi.us or office phone 715/720-2144. Thanks again for the opportunity to work with you on your project!

Sincerely,

Ann Whittaker
Program Assistant

cc: Neill Howell

Enclosures



Administrator Use Only	
Project/Grant:	26711/10714
Grant Amount:	\$25,134.00
Approved Date:	11/20/2009
Approved By:	Jason Augustine

PROJECT COMPLETION NOTICE

Customer Name: Wisconsin Department of Natural Resources (DNR)
 Job Site Location: 7562 US Highway 14 Middleton WI 53562-4252
 Tax ID: 39-6006436

Business Classification: Other

Make Incentive Check Payable to: Wisconsin Department of Natural Resources (DNR)
 Tim Panzer
 PO Box 7921
 Madison WI 53707-7921

Certification:

The following certifications are required in order for this form to substitute for the IRS form W-9 Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
3. I am a U.S. citizen or other U.S. person (including a U.S. resident alien).

Project Profile

Energy Efficiency Measure		Completion Date	Actual Cost
Type	Description		
PV, 0.5 - 50 kW, nonprofit, standard	Cash back reward for a new, 0.5 to 50 kW, photovoltaic system on a tax-exempt facility. Incentive: \$150 per estimated annual kWh produced, up to 35% of project cost, up to \$75000. Energy production: Custom calculated.		

Customer: Enter the project completion date and actual (final) costs for each measure listed above in the space provided.

The undersigned agrees that the stated renewable or energy efficient measure(s) was (were) completed at the job site location listed above and that the Actual Cost represents the final costs of the approved project. To the best of my knowledge, the statements made on this notice are correct and I have submitted the appropriate supporting documentation including all market provider invoices and a copy of the executive summary if incentive is for a feasibility study.



 Customer Signature

TIMOTHY J. PANZER

 Customer Name (Print)

8 Jun 10

 Date

Focus on Energy Representative: Check the appropriate statement below and sign and date this completion notice.

- I have performed a site inspection of the location listed above and certify that the project is complete.
- I have reviewed the invoices submitted and am confident that the stated renewable or energy efficient measure(s) was (were) completed at the job site address listed above.

 Focus Representative Signature

 Focus Representative Name (Print)

 Date

SOLAR ELECTRIC SYSTEM ADDENDUM

This addendum must be completed and attached to your signed and dated **Project Completion Notice**.

Project Completion Notices submitted without required attachments (as noted below) are considered incomplete and the project cannot be approved for payment. It is recommended that market providers assist with completing this addendum. System photographs may be mailed as attachments or uploaded to the Focus on Energy Web site at focusonenergy.com/photos.

Attach copies of:

- All market provider and equipment invoices that clearly identify the following:
 - The manufacturer, module number and rated kilowatt capacity of the installed modules and inverter(s)
 - The cost break out of the modules, inverter(s), racking, balance of system, labor, sales tax, shipping and other costs as appropriate
 - The Focus on Energy incentive credit if the incentive is to be made payable to the market provider (sample invoices are provided at focusonenergy.com/sampleinvoice)
- Description of any system changes that occurred after project approval which may include the following (space provided below):
 - Rated capacity of the System
 - Manufacturer or model of panels &/or inverter(s)
 - Module orientation or shading
 - Type of racking system
- Installation warranty provided by market provider (two year minimum warranty required)
- Photos of the installed system including the modules at the site, inverter and its connection to the electrical panel, and battery box with cover removed and venting shown (if applicable)
- Interconnection agreement for grid-connected electric-generating systems
 - Not required for systems installed by NABCEP certified installers

Focus on Energy may request a compliance site visit prior to incentive payment

Use attached invoice(s) to complete the chart below:

ITEM	MANUFACTURER/MODEL NUMBER or MARKET PROVIDER(s)	SPECIFICATIONS	COST
Modules		kW (DC)	\$
Inverter(s)		kW (AC)	\$
Racking			\$
Balance of System	NA	NA	\$
Batteries and Battery Controller			\$
Labor (cannot include system-owner labor)		NA	\$
Sales Tax	NA	NA	\$
Shipping	NA	NA	\$
Other			\$
TOTAL COST			\$

SYSTEM CHANGES

Please describe any system changes in the space below. If system changes are not noted, your signature on the Project Completion Notice certifies that the system was installed exactly as described in the approved application and that the system complies with all applicable federal, state and local codes and regulations governing the installation and operation of the renewable energy system(s).

System Changes:



SOLAR ELECTRIC (PV) SYSTEM NOTICE OF INSTALLATION

STEPS TO REQUEST YOUR CASH INCENTIVE

1. Do not purchase, order, or install any equipment until you have submitted a Cash-Back Reward Application that has been approved by Focus on Energy.
2. After receiving approval you may move forward with the purchase and installation of your system.
3. Within 60 days of your system's commissioning date, complete and e-mail or mail a signed copy of this Notice of Installation, along with all necessary attachments, to the address at the bottom of the page.
4. Focus on Energy may request a compliance site visit prior to payment of your cash incentive.
5. Only system owners who have fully satisfied one of the efficiency first incentive tracks **prior** to the system's commission date will qualify for the enhanced incentives. See the Efficiency First Reward section of this Notice of Installation for details.
6. Within 6-8 weeks of receipt and acceptance of your Notice of Installation, Focus on Energy will mail your cash incentive to the appropriate party as indicated on your Cash-Back Reward Application. If the cash incentive is to be made payable to the installation contractor, the system owner must be credited the amount of the incentive by the contractor, and that credit must be clearly labeled as the Focus on Energy Incentive on the invoice(s) that are included with this Notice of Installation. Sample invoices are provided at focusonenergy.com/sampleinvoice.
7. The final cash incentive is calculated based on the installed system details and may differ from the estimated incentive if any system parameters have changed

SYSTEM OWNER INFORMATION – Complete all fields			
Homeowner or Contact Name: Tim Panzer		Company/Organization (if applicable): WI Department of Natural Resources	
Mailing Address P.O. Box 7921	City Madison	State WI	ZIP 53707
Owner/Contact Home Phone	Owner/Contact Work Phone 608-267-2465	Owner/Contact Home Email timothy.panzer@wisc.gov	
Installation Address (No PO Boxes) 7562 US Highway 14	City Middleton	State WI	ZIP 53562

INSTALLATION CONTRACTOR INFORMATION – Complete all fields			
Company Installing the System: Full Spectrum Solar		Lead Installer's Name: Burke Oneal	
Mailing Address 100 S. Baldwin St.	City Madison	State WI	ZIP 53703
Phone 608-284-9495	e-mail info@fullspectrum solar.com		

DESCRIPTION OF SYSTEM CHANGES – Please list any differences between the installed system and the system that was described on your initial Cash-Back Reward Pre-Approval Application including differences in installed components, system capacity, module orientation, shading estimates, racking systems, etc.
<input checked="" type="checkbox"/> The system was installed as described in my Cash-Back Reward Pre-approval Application <input type="checkbox"/> The differences that exist between my system as described in my Cash-Back Reward Pre-approval Application and as installed are described below (attach a separate page if necessary):

Email or Mail the completed Notice of Installation to:
renewableapplications@focusonenergy.com
 Focus on Energy, Attn: Renewable Energy Channel, 431 Charmany Drive, Madison WI 53719.

SOLAR ELECTRIC (PV) SYSTEM NOTICE OF INSTALLATION

Enhanced Incentive – If you did not **PREVIOUSLY** qualify for the enhanced incentive, please complete the worksheet below to determine if your system qualifies for the standard or enhanced incentive

This solar installation at my home qualifies for an enhanced incentive due to completing efficiency first and because I have satisfied the efficiency track indicated below:

Energy Conservation Track

- My home's annual electric consumption is less than 6,500 kilowatt-hours (kWh) per year
 - Please include auditable documentation of your home's electric consumption for the most recent 12 months (e.g. electric bills, account summary, etc.)

Wisconsin ENERGY STAR® Home Track

- My home is a certified Wisconsin ENERGY STAR Home
 - Date certified: ____ / ____ / ____

Home Performance with ENERGY STAR Track

- I have had a Home Performance with ENERGY STAR pre-test done
- I have implemented at least three eligible efficiency measures¹ as indicated below
 - Attic Insulation
 - Sidewall Insulation
 - Sill Box Insulation
 - Foundation Insulation
 - Air sealing
 - Heating equipment including boilers or furnaces
 - Hot-water heating equipment
 - Central air conditioner
- My consultant has completed a post-test inspection to verify that the recommended efficiency measures that were implemented meet or exceed Home Performance specifications.
 - Name of Home Performance consultant: _____
 - Date of post-test inspection: ____ / ____ / ____

Efficient Equipment Installation Track

- I have received an incentive from Focus on Energy for installing the two pieces of energy-efficient equipment indicated below:
 - Heating equipment including boilers or furnaces
 - Date Installed: ____ / ____ / ____
 - Hot-water heating equipment
 - Date Installed: ____ / ____ / ____
 - Central air conditioner
 - Date Installed: ____ / ____ / ____
- OR -
- I have received an incentive from Focus on Energy for installing the following piece of energy-efficient equipment indicated below:
 - Ground-source (geothermal) heat pump
 - Date Installed: ____ / ____ / ____

I have not satisfied any of the efficiency tracks listed above and understand that this system will not qualify for the enhanced incentives for doing efficiency first.

SYSTEM COMMISSION DATE – List the date that your system began producing energy

System Commission Date: 05/24/2010

¹ These three (3) measures may include efficiency upgrades that were recommended by your Home Performance consultant or the installation of efficient equipment for which you received a Focus incentive. If your consultant recommended fewer than three (3) of the measures listed above, all measures, excluding foundation insulation, must be implemented to qualify. If your consultant recommended no efficiency measures in your Home Performance report, you automatically qualify.

Email or Mail the completed Notice of Installation to:

renewableapplications@focusonenergy.com

Focus on Energy, Attn: Renewable Energy Channel, 431 Charmany Drive, Madison WI 53719.

SOLAR ELECTRIC (PV) SYSTEM NOTICE OF INSTALLATION

SYSTEM COST & SPECIFICATIONS - Complete all fields			
ITEM	MAKE / MODEL or PROVIDER	SPECIFICATIONS	COST
Modules	Sharp ND-224U2	0.224kW (DC)	\$34,000
Inverter(s)	Fronius IG Plus 11.4	11.4kW (AC)	\$7,500
Racking	DP&W BRM	Ballasted Ground Mount	\$15,000
Balance of System	NA	NA	\$18,463
Batteries & Battery Controller			\$
Labor (cannot include system-owner labor)		NA	\$19,000
Sales Tax	NA	NA	\$
Shipping	NA	NA	\$500
Other			\$
TOTAL COST			\$94,463

ATTACHMENTS - Copies of all items listed below must be attached. A Notice of Installation without all required attachments will be considered incomplete and cannot be approved for payment.

- All project invoices
 - Invoices must be dated and itemized
 - Ensure that the total cost indicated on the invoices match the total cost listed in the table above
 - If the cash incentive is to be paid to the installation contractor, the system owner must be credited the amount of the incentive by the contractor, and that credit must be clearly labeled as the Focus on Energy Incentive on the invoice(s) that are included with this Notice of Installation. Sample invoices are provided at focusonenergy.com/sampleinvoice.
- Installation warranty
 - A two-year minimum installation warranty is required
- Photos of the installed system including showing all the modules clearly, inverter showing its connection to the electrical panel (not required for systems with micro-inverters), and the battery box with cover(s) removed (ensure battery box venting is shown) if applicable
 - System photographs may be mailed as attachments or uploaded to the Focus on Energy Web site at focusonenergy.com/photos.
- Interconnection agreement for grid-connected systems
 - Not required for systems installed by NABCEP-certified installers
- If you did not PREVIOUSLY qualify for the enhanced incentive for doing efficiency first, but do now, please attach any required supporting documentation

SYSTEM OWNER SIGNATURE - Must be signed by system owner

To the best of my knowledge this renewable energy system complies with all applicable federal, state and local codes and regulations governing the installation and operation of the renewable energy systems. I further certify that the information provided in this Notice of Installation is both complete and accurate.



Owner/Contact Signature

6, 24, 10

Date

****Keep a copy of this document for your files****

To Be Completed by Focus on Energy

Project Number		NOI Received By	Date Received
Reviewed By		<input type="checkbox"/> Approved <input type="checkbox"/> Denied	Date Approved / Denied
Estimated Energy Production		Parasitic Losses	Peak kW
Standard Incentive	Enhanced Incentive	Total Focus Incentive	
<input type="checkbox"/> Standard <input type="checkbox"/> BNCH <input type="checkbox"/> HPES <input type="checkbox"/> WESH <input type="checkbox"/> Effe <input type="checkbox"/> ACES <input type="checkbox"/> LEED		Make Incentive payable to: <input type="checkbox"/> Homeowner <input type="checkbox"/> Company/Organization <input type="checkbox"/> Installation Contractor	

Email or Mail the completed Notice of Installation to:
renewableapplications@focusonenergy.com

Focus on Energy, Attn: Renewable Energy Channel, 431 Charmany Drive, Madison WI 53719.



focus on energy
The power is within you.

Program Manager Approval

Project/Grant: 26711/10714
Grant Amount: \$25,134.00
Project Cost: \$94,073.00
Approved Date: 11/20/2009
Approved By: Jason Augustine

BUSINESS PROGRAMS GRANT AGREEMENT

Customer Profile

Customer Name:	Wisconsin Department of Natural Resources (DNR)	Project Contact:	Tim Panzer
Tax ID:	39-6006436	Contact Address:	
Type of Business:	Government - State	Contact Phone:	608-267-2465
Focus on Energy Sector:	Schools and Government	Contact Fax:	
Business Classification:	Other	Contact Email:	Timothy.Panzer@wisconsin.gov

Certification

The following certifications are required in order for this form to substitute for the IRS Form W-9.

Under penalties of perjury, I certify that:

1. The number shown on this form is the correct taxpayer identification number (or I am waiting for a number to be issued to me), and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest of dividends, or (c) The IRS has notified me that I am no longer subject to backup withholding, and
3. I am a U.S. citizen or other U.S. person (including a U.S. resident alien).

Project Profile

Site Location: DNR - US HWY 14 Middleton Site - Solar Electric - 02/10
7562 US Highway 14
Middleton WI 53562-4252

ELECTRIC PROVIDER: _____

GAS PROVIDER: _____

Estimated Baseline System Usage			Recommendations	Estimated System Savings		
Peak Summer Demand*	Annual			Peak Summer Demand (kW)	Annual	
	Electric (kWh)	Gas (Therm)	Electric (kWh)		Gas (Therms)	
			70.1101 - PV, 0.5 - 50 KW, NONPROFIT, STANDARD Cash back reward for a new, 0.5 to 50 kW, photovoltaic system on a tax-exempt facility. Incentive: \$1.50 per estimated annual kWh produced, up to 35% of project cost, up to \$75000. Energy production: Custom calculated.	4.9280	12,567	
<----- TOTAL ----->				4.9280	12,567	

* Peak demand savings are those that are reduced during the periods of weekdays in June, July, or August. Please provide descriptions of all variables used in these formulas.

The undersigned agrees that to the best of my knowledge, the renewable or energy efficiency measure(s) listed above is/are representative of the project I expect to implement as part of the Focus on Energy program. I understand that grant amounts are determined from the customer specific data submitted on this agreement form and that grants for similar measures may vary from customer to customer based on specific cost and savings. Submission of this agreement does not guarantee that your project will receive funding or a specific level of funding. Focus on Energy may conduct a pre-installation inspection to verify potential savings. I agree, at Focus on Energy's discretion, that I am liable to refund to Focus on Energy some or all of the funding received for this project if Focus on Energy determines that I have misrepresented information such as but not limited to eligibility or project information. I have read and agree to the Grant Agreement Terms & Conditions below. Any customer receiving an incentive check may be contacted by an evaluator to verify service/equipment installation or be asked to participate in a customer survey. This agreement must be signed and returned by the Agreement Return Date below.


Customer Signature

TIM PANZER
Customer Name (Print)

8 July 2010
Date

Focus Representative Signature

Focus Representative Name (Print)

Date

Agreement Return Date: 1/22/2010

Project Completion Deadline: 11/23/2010

GRANT AGREEMENT TERMS & CONDITIONS

This Focus on Energy Program Grant Agreement ("Agreement") is by and between Wisconsin Energy Conservation Corporation ("Admin") as Administrator for the Focus on Energy Program ("Focus") bound by contract to Statewide Energy Efficiency and Renewable Administration, Inc. ("SEERA"), and the applicant ("Customer"). Admin, Focus and Customer may be individually referred to herein as a "Party" and collectively as the "Parties."

ARTICLE 1: PROJECT TERM AND DESCRIPTION

The Term of this Agreement shall begin on the Approval Date as shown on the Agreement and shall run continuously through the Project Completion Deadline, unless extended or terminated pursuant to this Agreement or by mutual agreement of the parties. The energy savings project (the "Project") shall be as described on the Agreement and approved by Admin. The Project shall be implemented in accordance with the Agreement.

ARTICLE 2: PROJECT PAYMENTS

Admin shall direct the fiscal agent to make a lump-sum payment in the amount set forth in the Agreement upon Admin's receipt and acceptance to Admin's satisfaction of a Completion Notice and any other required project documentation as defined in Article 3 hereof. Admin shall be under no obligation to make any payments to the Customer if SEERA does not provide the funds to Admin for this purpose or if Admin is not under contract with SEERA for this purpose. Focus on Energy reserves the right to amend incentive amounts if criteria and information considered at the time of project approval are not met at project implementation. This includes but is not limited to project cost and project scope. Customer is only entitled to one payment per project measure. Should customer or its representative make duplicate application for payment of project measure, Admin reserves the right to recover any payments made in excess of the entitled project payment.

ARTICLE 3: PROJECT IMPLEMENTATION

At the discretion of Focus, the Customer is liable to refund to Focus some or all of the funding received for this project if Focus determines that the customer has misrepresented information such as, but not limited to, eligibility or project information. The Customer's procurement, installation and implementation (completion) of renewable and/or energy efficiency measures shall be accomplished in accordance with the requirements outlined in the approved Agreement. The Customer shall deliver to Admin a Completion Notice by the Project Completion Deadline noted in the Agreement. Customer will provide invoices for equipment purchased or service performed as well as documentation that verifies that the renewable and/or energy efficiency measures, (i) have been properly installed, (ii) are functioning properly and (iii) have the potential to generate energy savings if properly maintained and operated. Should Admin discover that the project was not implemented as attested to in the Completion Notice, Customer shall be in breach of the Agreement and subject to full recovery of any and all payments made by Admin.

ARTICLE 4: RIGHT TO INSPECT

Admin, and its designated representatives, shall have the right to observe and inspect all Project work in any of the Customer's facilities at any reasonable time. The Customer and its subcontractors shall maintain accurate records of the Project work (e.g., installation records, invoices, and maintenance information) that is performed hereunder for a period of one (1) year after the expiration or early termination of this Agreement. Admin and the State of Wisconsin shall have the right from time to time and at all reasonable times during the term of the Agreement and for a one-year period thereafter to inspect such records of the Project.

ARTICLE 5: MANNER OF PERFORMANCE

The Customer shall perform its responsibilities under this Agreement in an efficient and expeditious manner and in accordance with all of the terms and provisions of this Agreement. The Customer shall make all reasonable attempts to ensure that all Project work, as described in the Agreement, is performed in accordance with current professional standards and with the diligence and skill expected for the performance of such work.

ARTICLE 6: DEFAULT AND TERMINATION

6.1 Subject to Section 6.3, this Agreement shall remain in effect until the Project expiration date as specified in Article 1 hereof unless a Party is in breach of any provision of this Agreement.

6.2 In the event that SEERA terminates, for any cause, Admin's Contract with SEERA, which terminates Admin's right to act as Administrator of the Focus on Energy Program, responsibility for this Agreement transfers to the new Program Administrator.

6.3 This Agreement may be terminated at Admin's sole discretion if Customer does not commence implementation of the Project on or before the Project Completion Deadline, unless extended by mutual agreement of the Parties. Evidence of commencement of the implementation of the Project can consist of: i) Copies of accepted Purchase Orders for the equipment to be installed as part of the Project, or ii) A copy of an executed contract with the general contractor supplying goods and or services for the project.

ARTICLE 7: INDEMNIFICATION AND DAMAGES

The Customer shall protect, indemnify, defend and hold harmless Admin, and SEERA, and their affiliates, subsidiaries, parent organization, officers, managers, directors, agents, employees, contractors (not including the Customer), and subcontractors from and against any and all liabilities, losses, claims, damages, judgments, penalties, causes of action, costs and expenses (including, without limitation, attorneys' fees and expenses and the cost of investigation) imposed upon or incurred by or asserted against these entities resulting from, arising out of or relating to the performance of this Agreement excepting only such liabilities, losses, claims, damages, judgments, penalties, causes of action, costs and/or expenses that are solely caused by the gross negligence or willful misconduct of Admin, its officers, directors, agents or employees. The Customer agrees that such obligations under this Article shall survive any expiration or termination of this Agreement and shall not be limited by any enumeration herein of required insurance coverage. To the maximum extent permitted by law, the Customer agrees to limit Admin's liability to the Customer for damages to the total amount of the payments identified in this Agreement. This limitation shall apply regardless of the cause of action or legal theory pled or asserted. Customer hereby expressly waives the right to specifically enforce this Agreement.

ARTICLE 8: PUBLICITY

The Customer shall not use Admin's or SEERA's corporate name, logo, identity, any affiliation, and any related logo including the "Focus on Energy" name, logo, or identity, for any marketing, advertising or solicitation without prior written consent of Admin, which consent may be withheld in Admin's sole and absolute discretion. The Customer shall collaborate with Admin to prepare any press release and to plan for any news conference concerning the Project and agrees to provide Admin, for its prior written approval, a written copy of any advertisements or promotional material regarding this program prior to publishing any such advertisements or promotional material. Focus reserves the right to publicize the Customer's participation in the Focus on Energy program unless requested otherwise in writing and submitted to Focus on Energy - Business Programs Office, 431 Charmany Drive, Madison, WI 53719.

ARTICLE 9: REVIEW AND DISCLAIMER

Admin's execution of this Agreement with the Customer and any review of the design, construction, operation, or maintenance of the Project by Admin or any of its subcontractors shall not constitute any representation or warranty by Admin as to the economic or technical feasibility, operational capability or reliability of any renewable and/or energy efficiency measures or the capability or reliability of any market provider performing any work on the Project. The Customer shall in no way represent to any third party that Admin's execution of this Agreement or any reviews by Admin or its subcontractors, including, but not limited to, Admin or its subcontractors review of the design, construction, operation, or maintenance of the Project is a representation or warranty by Admin as to the economic or technical feasibility, operational capability or reliability of the renewable and/or energy efficiency measures or an endorsement of the contractor performing work on the Project. The Customer is solely responsible for the technical feasibility, operational capability and reliability of the renewable and/or energy efficiency measures.

ARTICLE 10: ACCEPTANCE

The Customer is required to acknowledge its understanding and acceptance of the terms and conditions of this Agreement by returning an executed copy of this Agreement to the Customer's Focus on Energy Advisor or to Focus on Energy - Business Programs Office, 431 Charmany Drive, Madison, WI 53719 on or before the Agreement Return Date. If the Customer's Focus on Energy representative does not receive the executed copy of this Agreement by the Deadline, Admin will consider that Customer's decision is to decline the terms and conditions contained herein and this Agreement will be of no force and effect.

ARTICLE 11: MISCELLANEOUS

§14.1. Governing Law. This Agreement shall be interpreted according to the laws of the State of Wisconsin.

§14.2. Assignment. Admin may assign, transfer or convey this Agreement or any of Admin's rights, obligations, interests or responsibilities hereunder, in whole or in part, without the consent of Customer.

§14.3. Severability. If any court of competent jurisdiction determines that any provision of this Agreement is invalid or unenforceable, then such invalidity or unenforceability shall have no effect on the other provisions hereof, which shall remain valid, binding and enforceable and in full force and effect, and such invalid or unenforceable provision shall be construed in a manner so as to give the maximum valid and enforceable effect to the intent of the parties expressed therein.

ARTICLE 12: ENTIRE AGREEMENT

The Agreement and the above Terms and Conditions constitute the entire understanding and acceptance of the parties concerning its subject matter and supersede all other agreements, whether oral or written. No modification shall be binding on either party unless reduced to writing and signed by both parties.

SOLAR ELECTRIC (PHOTOVOLTAIC) SYSTEM CASH-BACK REWARD PRE-APPROVAL APPLICATION



Projects from 0.5 to 50 kilowatts capacity. Valid through December 31, 2009.

Initial Application Updated Application

STEPS TO APPLY FOR A CASH-BACK REWARD

1. Focus on Energy strongly recommends that you arrange for a Focus on Energy Solar Electric Site Assessment to help determine if a solar electric system is suitable for your location (focusonenergy.com/siteassessments).
2. Focus on Energy recommends obtaining at least three bids for your solar electric system from eligible installation contractors on the [Focus on Energy Full Service Solar Electric System Installation Firms](http://focusonenergy.com/fullserviceinstallers) list (focusonenergy.com/fullserviceinstallers).
3. Make sure your installation contractor designs the system according to the system requirements specified in this application.
4. Complete and email or mail a signed copy of this application to the address at the bottom of the page.
5. Homeowners that have fully participated in the Wisconsin ENERGY STAR Home Program or Home Performance with ENERGY STAR Program are eligible to receive a \$500 bonus reward (focusonenergy.com/solarbonus).
6. **Do not purchase, order or install any equipment until you have been notified by Focus on Energy that your application is approved! Installation prior to Focus on Energy approval may render your project ineligible for funding.**
7. Within 30 days of receiving a completed application, Focus on Energy will notify you if your application has been approved. You will also receive a Notice of Installation form that you will need to complete and return after your system has been installed.
8. If your system's expected electricity production changes by more than 20 percent after your Cash-Back Reward is approved, please update the information on the system using a new Cash-Back Reward application and mail it to the address listed below. If the updated Cash-Back Reward application is not approved by Focus on Energy, additional funds may not be awarded.
9. Install the system and ensure installation meets all applicable local, state and national codes, including the National Electric Code, has the appropriate permits and that you have a signed interconnection agreement with your electric provider. You have one year to install and submit the completed Notice of Installation.
10. To receive the Cash-Back Reward payment, mail the Notice of Installation to the address at the bottom of this page.

Questions regarding this application should be directed to Focus on Energy at 800.762.7077 or renewableapplications@focusonenergy.com.

APPLICANT INFORMATION Complete all appropriate fields. Please print.

Contact Name or Name of Residential Owner Robert E. Strous, Jr.	Company/Organization (if applicable) WI Department of Natural Resources				
Federal I.D. NO. (if applicable) 396006436	<input type="checkbox"/> LLC	<input type="checkbox"/> Corporation	<input type="checkbox"/> Partnership	<input type="checkbox"/> Individual/Sole proprietor	<input type="checkbox"/> For Profit
	<input type="checkbox"/> School	<input type="checkbox"/> 501(c)3	<input checked="" type="checkbox"/> Government	<input type="checkbox"/> Other:	<input checked="" type="checkbox"/> Not for Profit

\$500 Solar Bonus for Homeowners (focusonenergy.com/solarbonus):

- Home is/will be certified Wisconsin ENERGY STAR Home
 Home has/will complete Home Performance with ENERGY STAR in-home evaluation and post performance inspection
 Home is NOT participating in the Wisconsin ENERGY STAR Home or Home Performance with ENERGY STAR Programs

Mailing Address P.O. Box 7921	City Madison	State WI	ZIP 53707-7921	County Dane
Owner/Contact Home Phone	Owner/Contact Work Phone (608) 266-2699	Owner/Contact Email Robert.StrousJr@Wisconsin.gov		
Installation address (no PO Boxes) 7562 USH 14	City Middleton	State WI	ZIP 53562	County Dane
Electric utility at installation address MG&E	Space heating fuel supplier at installation address N/A			
Current space heating fuel type: <input type="checkbox"/> Natural gas <input type="checkbox"/> Propane (LP) <input type="checkbox"/> Oil <input type="checkbox"/> Electric <input type="checkbox"/> Other:				

INSTALLATION CONTRACTOR INFORMATION

Company installing the system Full Spectrum Solar	Lead Installer's Name Burke O'Neal			
Mailing Address 100 S. Baldwin Street, Suite 101	City Madison	State WI	ZIP 53703	
Company Phone 608-284-9495	Company Email burke@fullspectrum solar.com	NABCEP License Number 091804-19		

E-mail or mail the completed Cash-Back Reward application to:

renewableapplications@focusonenergy.com

Focus on Energy, Attn: Renewable Energy Cash-Back Rewards, 431 Charmany Drive, Madison, WI 53719.

Questions regarding this application should be directed to Focus on Energy at 800.762.7077.

SOLAR ELECTRIC (PHOTOVOLTAIC) SYSTEM CASH-BACK REWARD PRE-APPROVAL APPLICATION



Projects from 0.5 to 50 kilowatts capacity. Valid through December 31, 2009.

SYSTEM SPECIFICATIONS AND COST ESTIMATE

Manufacturer and Model	Rated Capacity	Number	Total Capacity	Total Cost
Modules: Sharp ND-224U2	.224 Kilowatts per module	44	9.86 kW	\$34,000
Inverter: Fronius IG 11.4-3 Plus	11.4 Kilowatts per inverter	1	11.4 kW	\$7,500
Rack: DP&W BRM	NA	1	NA	\$15,000
Charge Controller: ¹ NA	_____ Amps			
Batteries: ¹ NA	_____ Amp hours per battery			

¹ Only for systems with batteries.

Other Costs

Balance of System:	\$18,073	Labor:	19,000	Shipping:	\$500	Other:	
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TOTAL SYSTEM COST: \$94,073

SYSTEM DETAILS

Estimated Installation Date 1/15/10	Annual Shading Estimate (Do not include snow shading) 0 %	Shading Tool Used Pathfinder
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RACKING Complete appropriate section based on type of rack

Type	Module Compass Direction (degrees)	Module Tilt Angle (degrees)
<input checked="" type="checkbox"/> Fixed Rack	180	36
<input type="checkbox"/> Single Axis Tracking Rack	NA	
<input type="checkbox"/> Dual Axis Tracking Rack	NA	NA

TO BE COMPLETED BY FOCUS ON ENERGY STAFF ONLY Project Information

Project Number	Application Received By	Date Received	
Estimated Energy Production	Parasitic Losses	Peak kW	
Cash-Back Reward Estimate	Cash-Back Reward Approved <input type="checkbox"/> Yes <input type="checkbox"/> No	Approved By	Date Approved

E-mail or mail the completed Cash-Back Reward application to:

renewableapplications@focusonenergy.com

Focus on Energy, Attn: Renewable Energy Cash-Back Rewards, 431 Charming Drive, Madison, WI 53719.

Questions regarding this application should be directed to Focus on Energy at 800.762.7077.

SOLAR ELECTRIC (PHOTOVOLTAIC) SYSTEM CASH-BACK REWARD PRE-APPROVAL APPLICATION



Projects from 0.5 to 50 kilowatts capacity. Valid through December 31, 2009.

TERMS AND CONDITIONS

1. **Eligibility.** Businesses, organizations, institutions, and federal, state, county, local or tribal governments and residents are eligible for Focus on Energy incentives if they purchase electricity from an electric provider participating with Focus on Energy. For a list of participating providers visit, focusonenergy.com/utilities.
2. **System Location.** The renewable energy system must be installed on a site whose owner purchases electricity from an electric provider participating with Focus on Energy for that site.
3. **Approval.** An application for a Cash-Back Reward must be approved by Focus on Energy before any equipment is ordered, purchased or installed. Within 30 days of receiving a complete application, you will be mailed a letter notifying you if your application has been approved. Installation prior to Focus on Energy approval may render your project ineligible for funding.
4. **System Requirements.** The renewable energy system must be designed and installed to meet the "System Requirements" described in this application. The renewable energy system must have the appropriate permits and comply with all applicable federal, state and local codes governing the installation and operation of renewable energy systems.
5. **Systems located at Spec homes.** For new spec homes that have not yet been purchased, the home builder should apply and receive approval from Focus for the Cash-Back Reward on behalf of the future homeowner. The new homeowner should submit the notice of installation and is eligible for the reward payment after the home's purchase.
6. **Repairs Are Not Eligible.** Repairs, general maintenance or replacement of batteries or inverters are not eligible.
7. **One-Year Project Deadline.** The renewable energy system must be installed and the Notice of Installation submitted within one year. Projects that take more than six months to complete must submit a progress report after six months noting substantial progress toward installation, including copies of receipts for equipment or a signed installation contract. If the installation does not meet the one year timeline the Focus on Energy Program may terminate your reward. You will receive a written warning 30 days before your reward is cancelled. Requests for extensions beyond the twelve-month period must be submitted in writing to Focus on Energy at the address noted on the bottom of the page.
8. **Notice of Installation.** The Cash-Back Reward will be paid after the system has been installed and a complete Notice of Installation has been submitted. Dated invoices or receipts for all projects must be submitted with the Notice of Installation. Only costs directly linked to the renewable energy system are eligible. The Cash-Back Reward will be paid within 60 days of receipt and acceptance of the Notice of Installation.
9. **System Operation.** The Cash-Back Reward recipient agrees to operate the renewable energy equipment, at the location proposed and as described in the grant application, for a period of at least three (3) years.
10. **Additional Terms.** Focus on Energy reserves the right to:
 - a. Withhold payment until any identified problems with the renewable energy system are resolved
 - b. Terminate this reward in whole or in part due to the recipient's failure to fulfill the terms and conditions in this document, due to non-appropriation of necessary funds
 - c. Alter or discontinue the Cash-Back Reward program at any time without notice
 - d. Make the final determination on whether items meet the standards set forth in the program
 - e. Inspect the system to ensure that it is consistent with all "Terms and Conditions"
 - f. Monitor or evaluate the performance of the system for a period of two (2) years
11. **Privacy.** Focus on Energy reserves the right to publicize your participation in this program, unless you specifically request otherwise.
12. **Disclaimer.** Acceptance of this Cash-Back Reward does not constitute the approval, acceptance, warranty, guarantee or endorsement of Focus on Energy or Wisconsin Energy Conservation Corporation.

Please Note: This completed form must be submitted and approved by Focus on Energy before any equipment is ordered, purchased or installed.

OWNER/CONTACT SIGNATURE

I certify that I have performed or reviewed this application and any accompanying documentation, and the information is reasonable and accurate. I further certify the unit(s) is to be installed at the indicated installation address. I have read the terms and conditions associated with this program.

Owner/Contact Signature

Date

11/16/09

- Periodically, Focus on Energy evaluates program efficacy by monitoring energy use / production prior to and after installation of renewable energy system(s). Your signature provides Focus on Energy approval to obtain energy data directly from your electric and/or natural gas provider(s). If you prefer not to grant Focus on Energy access to your electric / natural gas records, please check the "Opt Out" box. Opt Out
- Focus on Energy representatives promote the program and renewable energy in Wisconsin through the use of photos, project descriptions and general project locations during public presentations and verbal or written conversations with interested parties. Your signature provides Focus on Energy approval to use photos, provide a general description and reference the general location of your project for the purposes described above. If you prefer not to grant Focus on Energy the right to use your project information as described above without first obtaining your consent, please check the "Consent Required" box. Consent Required

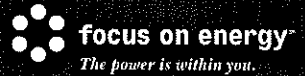
E-mail or mail the completed Cash-Back Reward application to:

renewableapplications@focusonenergy.com

Focus on Energy, Attn: Renewable Energy Cash-Back Rewards, 431 Charmany Drive, Madison, WI 53719.

Questions regarding this application should be directed to Focus on Energy at 800.762.7077.

SOLAR ELECTRIC (PHOTOVOLTAIC) SYSTEM CASH-BACK REWARD PRE-APPROVAL APPLICATION



Projects from 0.5 to 50 kilowatts capacity. Valid through December 31, 2009.

INSTRUCTIONS

All of the requested information on the Cash-Back Reward application must be completed. If the information is incomplete or vague, your application will not be approved.

- **Annual Shading:** Shading is the percentage that the modules will be shaded annually by obstructions (including trees, power lines, buildings, etc), not including snow. The obstruction shading estimate must be based on the analysis done with a shading tool. List the name of the shading tool used.
- **Module Compass Direction (degrees):** Enter the compass direction the modules will face.
- **Module Tilt Angle (degrees):** Enter the number of degrees the modules' surface will be from horizontal.
- **Snow Cover:** Focus on Energy staff will estimate the systems shading caused by snow cover based on the array's tilt angle as follows:

Tilt Angle	≥ 35°	≥20° — <35°	≥14° — <20°	≥10° — <14°	≥5° — <10°	≥2° — <5°	<2°
Shading from snow cover	1%	2%	3%	4%	6%	8%	12%

DETERMINING THE CASH-BACK REWARD LEVEL

Focus on Energy uses PVWatts version 1 (available online) to estimate your system's annual electricity production (using a 0.80 DC to AC derate factor to account for system losses). The PVWatts annual kilowatt hour (kWh) production estimate is reduced by your estimate of annual shading caused by obstructions, and the Focus on Energy estimate of shading due to snow cover. These reductions result in an adjusted PVWatts annual production estimate. Production adjustments are not made for manually adjustable racks.

Focus on Energy uses the following table to determine your Reward Factor. The appropriate Reward Factor is multiplied by your system's adjusted PVWatts' annual production estimate to determine your Cash-Back Reward. The Cash-Back Reward for solar electric systems can not exceed the Maximum Cost Share or Maximum Reward. Focus on Energy will not cost share any system-owner labor costs unless the installation contractor can document payment to the system-owner for the provided services.

SYSTEMS AT:	DC RATED MODULE CAPACITY (kW)	REWARD FACTOR	MAXIMUM COST SHARE	MAXIMUM REWARD
Residential or Business sites	≥0.5 – ≤20	\$1.50 per kWh/yr	25%	\$35,000
	>20 – ≤50	\$1.00 per kWh/yr	25%	\$50,000
Nonprofit* or Government sites	≥0.5 – ≤20	\$2.00 per kWh/yr	35%	\$45,000
	>20 – ≤50	\$1.50 per kWh/yr	35%	\$75,000

*Nonprofit groups must file a federal IRS form 990 or equivalent.

SYSTEM REQUIREMENTS

- **Certified Installer:** The solar electric system must be installed by a contractor on the [Focus on Energy Full Service Solar Electric Installation Firms](#) list or by an individual who has met the experience and training criteria of the Solar Electric Full Service Policy ([focusonenergy.com/REInstallers](#)).
- **New Components:** All of the major system components (modules, inverter and, if needed, a charge controller) must be new.
- **Minimum System Size:** Projects are eligible only if the total DC rated capacity of the solar electric modules is over 500 watts.
- **Maximum System Size:** Projects are eligible only if the total DC rated capacity of the solar electric modules is 50 kilowatts or less.
- **Certified Modules and Inverters:** Solar electric modules and inverters must be on California's list of eligible equipment.
- **Two-Year Installation Warranty.** The system must include at least a two-year installation warranty that covers any defects in the workmanship of the installation at no charge to the owner. The warranty must be provided by the firm that installs the solar electric system.
- **One-Year Equipment Warranty.** All major system components must have at least a one-year warranty.

E-mail or mail the completed Cash-Back Reward application to:

renewableapplications@focusonenergy.com

Focus on Energy, Attn: Renewable Energy Cash-Back Rewards, 431 Charmany Drive, Madison, WI 53719.

Questions regarding this application should be directed to Focus on Energy at 800.762.7077.



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Matthew J. Frank, Secretary

101 S. Webster St.
Box 7921
Madison, Wisconsin 53707-7921
Telephone 608-266-2135
FAX 608-267-2750
TTY 608-267-6897

11/25/09

FULL SPECTRUM SOLAR
100 S BALDWIN ST SUITE 101
MADISON WI 53703

Project: RRSP
Contract: 954

Gentlemen:

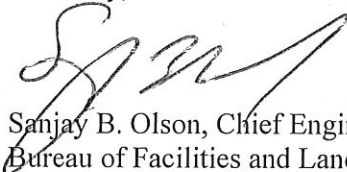
RE: FOUNDATION SUPPORT & CONNECTION WORK FOR PV ARRAY
REFUSE HIWAY LANDFILL

Your fully executed contract in the amount of \$36,401.50 for the above work is attached. You are to begin work as soon as practical and prosecute the work diligently to completion in accordance with the completion schedule indicated in the Invitation for Proposals.

Before starting the work, please contact our construction representative, SANJAY OLSON, Department of Natural Resources, PO BOX 7921, MADISON WI 53707, (608) 261-6453. All questions concerning this project should be referred to him/her. You are reminded of the requirement for insurance as described in Article 10 of the General Conditions and Requirements of the Contract.

Your request for payment, upon satisfactory completion of the work, should be sent on the enclosed form "DNR Request and Certification for Payment". Also, complete and sign the Settlement Certificate (form attached) and mail them both directly to the construction representative above.

Sincerely,


Sanjay B. Olson, Chief Engineer
Bureau of Facilities and Lands

SBO:cs

Attach

cc: LF/6 - (w/1 original contract)
Paula Schumann - FN/2 (w/cy of contract)
Anthonette Gilpatrick - SCR (w/cy of contract)
Sanjay Olson - LF/6 (w/cy of contract)
RR/5
Karen Kreger - AF/DR (only if expansion or remodel)

Received
DEC 1 2009
DEPT. OF NATURAL RESOURCES



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Matthew J. Frank, Secretary

101 S. Webster St.
Box 7921
Madison, Wisconsin 53707-7921
Telephone 608-266-2135
FAX 608-267-2750
TTY 608-267-6897

11/25/09

FULL SPECTRUM SOLAR
100 S BALDWIN ST SUITE 101
MADISON WI 53703

Project: RRSP
Contract: 953

Gentlemen:

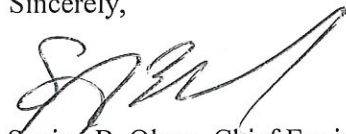
RE: PHOTOVOLTAIC PURCHASE & INSTALLATION
REFUSE HIDEWAY LANDFILL

Your fully executed contract in the amount of \$57,761.50 for the above work is attached. You are to begin work as soon as practical and prosecute the work diligently to completion in accordance with the completion schedule indicated in the Invitation for Proposals.

Before starting the work, please contact our construction representative, SANJAY OLSON, Department of Natural Resources, PO BOX 7921, MADISON WI 53707, (608) 261-6453. All questions concerning this project should be referred to him/her. You are reminded of the requirement for insurance as described in Article 10 of the General Conditions and Requirements of the Contract.

Your request for payment, upon satisfactory completion of the work, should be sent on the enclosed form "DNR Request and Certification for Payment". Also, complete and sign the Settlement Certificate (form attached) and mail them both directly to the construction representative above.

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Sanjay B. Olson, Chief Engineer
Bureau of Facilities and Lands

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RR/5
Karen Kreger - AF/DR (only if expansion or remodel)

11/25/09
DEC 1 2009
RECEIVED
DEPARTMENT OF NATURAL RESOURCES

DATE: November 23, 2009 FILE REF: 02-13-000849

TO: Refuse Hideaway Landfill File; Bob Strous – R&R Program Fiscal & Information
Technology Section Chief

FROM: Eileen Pierce – Air & Waste Media Leader, South Central Region *EFP*

SUBJECT: Conditional Case-by-Case Grant of Exemption for the Development of a Property Where
Solid Waste has been Disposed

Tom Bennwitz, of the Waste Materials and Management Program, and Hank Kuehling have reviewed the plans for the installation of a small array of solar panels on the waste cover of Refuse Hideaway Landfill, which were received by me in an e-mail, dated October 21, 2009, from Bob Strous, the Remediation & Redevelopment (R&R) Program's Fiscal & Information Technology Section chief. Based on this evaluation, the South Central Region Remediation & Redevelopment Program is issuing this general grant of exemption from the prohibitions contained in s. NR 506.085, Wis. Adm. Code. Note that a formal exemption application for this project was not completed because of the extensive familiarity Department personnel have with the landfill through decades of Department management of it.

The solar panel project contractors must comply with the conditions of this grant of exemption in order to maintain the exemption for the R&R Program. This grant of exemption is limited to the proposed changes described in the submittal. All those DNR personnel and contractors involved in the solar panel project should review the information contained in the publication *Development at Historic Fill Sites and Licensed Landfills: Considerations and Potential Problems PUB-RR-685* as an aid in preventing environmental or safety problems during and after development. We would like to particularly emphasize the public safety risk posed by the explosive potential for methane gas that may be present on a property due to the presence of decomposing solid waste.

Note that this approval does not relieve the Department of obligations to meet all other applicable federal, state and local permits, as well as zoning and regulatory requirements. If any questions arise concerning this letter, contact Hank Kuehling at (608) 275-3286 or by email to harlan.kuehling@wisconsin.gov

Received

NOV 25 2009

REMEDICATION &
REDEVELOPMENT

BEFORE THE
STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES

CONDITIONAL GRANT OF EXEMPTION
FOR
DEVELOPMENT ON A PROPERTY
WHERE SOLID WASTE HAS BEEN DISPOSED

FINDINGS OF FACT

The Department finds that:

1. No apparent owner exists for the former Refuse Hideaway, Inc. property located at 7562 USH 14, Middleton, Wisconsin.
2. Disposal of solid waste has occurred at this property and the waste remains at this property.
3. Bob Strous, Fiscal and Information Technology Section Chief, Remediation & Redevelopment Program, Department of Natural Resources, has submitted a request, dated October 21, 2009, for an exemption from the prohibition in NR 506.085, Wis. Adm. Code. This request includes a plan sheet showing the proposed location of the solar panels and their foundation and that of the subsurface wiring conduit, and also includes specifications and details of the project.
4. Based upon the information provided to the Department, the proposed development at the property is not expected to cause future exceedances of applicable soil and groundwater standards.
5. Additional facts relevant to the review of the grant of exemption modification request include the following: the Department staff members who have proposed the project are also very familiar with Refuse Hideaway Landfill and the current status of environmental impacts from this landfill along with the systems operating at the landfill (landfill gas collection and thermal destruction, leachate collection and treatment, and low-permeability cover over the waste) to mitigate and remediate the environmental impacts of the landfill.
6. If the conditions set forth below are complied with, the development of the property will not result in environmental pollution as defined in ss. 289.01(8) and 299.01(4), Wis. Stats.

CONCLUSIONS OF LAW

1. The Department has the authority under s. NR 500.08(4), Wis. Adm. Code to issue an exemption from the prohibition in s. NR 506.085, Wis. Adm. Code, if the proposed development will not cause environmental pollution as defined in ss. 289.01(8) and 299.01(4), Wis. Stats.

2. The Department has authority to approve a grant of exemption with conditions if the conditions are necessary to ensure compliance with the applicable provisions of chapters NR 500 to 538, Wis. Adm. Code, or to assure that environmental pollution will not occur.
3. The conditions set forth below are necessary to ensure compliance with the applicable provisions of chapters NR 500 to 538, Wis. Adm. Code, and to assure that environmental pollution will not occur.
4. In accordance with the foregoing, the Department has the authority under s. NR 500.08(4), Wis. Adm. Code, to issue the following conditional grant of exemption.

CONDITIONAL GRANT OF EXEMPTION

The Department hereby issues an exemption to the prohibition in s. NR 506.085, Wis. Adm. Code for development on a property which contains solid waste as proposed in the submittal dated October 21, 2009, subject to the following conditions:

1. No action related to the development of the property may be taken which will cause a detrimental effect on groundwater, as defined in s. NR 500.03(62), Wis. Adm. Code, or will cause or exacerbate an attainment or exceedance of any preventive action limit or enforcement standard at a point of standards application as defined in ch. NR 140, Wis. Adm. Code.
2. No action related to the development of the property may be taken which will cause a migration and concentration of explosive gases in any structures in excess of 25% of the lower explosive limit for such gases at any time. No actions may be taken which will cause a migration and concentration of explosive gases in the soils outside of the limits of solid waste disposal within 200 feet of the property boundary or beyond the property boundary in excess of the lower explosive limit for such gases at any time. No actions may be taken which will cause a migration and concentration of explosive gases in the air outside of the limits of solid waste disposal within 200 feet of the landfill boundary or beyond the landfill property boundary in excess of the lower explosive limit for such gases at any time.
3. No action related to the development of the property may be taken which will cause an emission of any hazardous air contaminant exceeding the limitations for those substances contained in s. NR 445.03, Wis. Adm. Code.
4. This exemption shall transfer with changes in property ownership. In accordance with s. 289.46(2), Stats., any person having or acquiring rights of ownership in land where a solid or hazardous waste disposal facility was previously operated may not undertake any activities on the land which interfere with the closed facility causing a significant threat to public health, safety or welfare. The Department of Natural Resources should be contacted to discuss any proposed changes to avoid activities that could violate the statute.
5. The excavation for the installation of the array foundation shall not penetrate the top of the clay layer of the landfill cap.

6. The trench for the electrical conduit installation shall not penetrate the top of the clay layer of the landfill cap. If the thickness of the soil overlying the clay layer is insufficient to accommodate the installation of the electrical conduit at the minimum depth to which it must be placed, the conduit may be placed at the appropriate depth below the top of the clay layer, but the trench must be filled with compacted clay to the top of the clay layer.
7. All disturbed areas of soil without topsoil must have 6 inches of topsoil applied, then be seeded and mulched. All areas of disturbed soil and/or vegetation with the remaining topsoil layer intact must be seeded and mulched. The seed mixture must be approved by the DNR project manager.
8. This grant of exemption is limited to the proposed changes described in the application. If additional changes beyond those described in the application are desired, a new application must be submitted to the Department for approval.

The Department reserves the right to require the submittal of additional information and to modify this grant of exemption at any time if, in the Department's opinion, modifications are necessary. Unless specifically noted, the conditions of this grant of exemption do not supersede or replace any previous conditions of approval for this property.

NOTICE OF APPEAL RIGHTS

If you believe that you have a right to challenge this decision, you should know that the Wisconsin statutes, administrative rules, and case law establish time periods within which requests to review Department decisions must be filed. To request a contested case hearing pursuant to section 227.42, Wis. Stats., you have 30 days after the decision is mailed, or otherwise served by the Department, to serve a petition for hearing on the Secretary of the Department of Natural Resources. All requests for contested case hearings must be made in accordance with section NR 2.05(5), Wis. Adm. Code, and served on the Secretary in accordance with section NR 2.03, Wis. Adm. Code. The filing of a request for a contested case hearing is not a prerequisite for judicial review and does not extend the time period for filing a petition for judicial review.

For judicial review of a decision pursuant to sections 227.52 and 227.53, Wis. Stats., you must file your petition with the appropriate circuit court and serve the petition on the Department within the prescribed time period. A petition for judicial review must name the Department of Natural Resources as the respondent.

This notice is provided pursuant to section 227.48(2), Stats.

Dated:

Eileen Pierce
November 24, 2009

Eileen Pierce
Air & Waste Media Leader
South Central Region

Tom Bennwitz

Tom Bennwitz, Waste & Materials Management Program Engineer
South Central Region

Harlan H. Kuehling

Harlan Kuehling, Remediation & Redevelopment Program Hydrogeologist
South Central Region

Final



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Matthew J. Frank, Secretary

101 S. Webster St.
Box 7921
Madison, Wisconsin 53707-7921
Telephone 608-266-2621
FAX 608-267-2750
TTY 608-267-6897

INVITATION FOR PROPOSALS

DEPARTMENT OF NATURAL RESOURCES
Department Project No. RRSP-B

**Photovoltaic Array Purchase and Installation
Refuse Hideaway Landfill
Middleton/Dane County**

PROPOSAL DEADLINE: November 5th, 2009
*** There is less than a 30 day bid period for this project***
OWNER: Wisconsin Department of Natural Resources

The Department of Natural Resources (DNR) is planning to install approximately 10kW of photovoltaic panels at the Refuse Hideaway Landfill near Middleton, Wisconsin. Purchase and installation of the array is the scope of this RFP. Construction is planned for November of 2009 with completion on or before November 30th (weather permitting).

The scope of the work is described in more detail on the enclosed plans and specifications. If you are interested in performing this work, please submit a single lump sum proposal for all work to:

Robert Strous – RRSP-B
Wisconsin Department of Natural Resources
Bureau of Remediation and Redevelopment
101 S. Webster Street
PO Box 7921 – RR/5
Madison, Wisconsin 53707-7921

A site visit is highly recommended. Please contact DNR representative Hank Kuehling at 608/275-3286 for making such arrangements.

A copy of the "General Conditions and Requirements" is included for your reference. Your proposal should be submitted on the attached PROPOSAL FORM, and must be signed to be valid. Questions relating to the proposal documents and requirements should be directed to the Architect/Engineer, Gene Moe at 920/451-2679.

Proposals must be received at the Proposal receipt address noted above before the end of the business day on the deadline date shown above. The Department of Natural Resources is not responsible for delays in the mail. Faxed proposals are acceptable if: 1) they are received at the FAX number listed in the letterhead before the deadline indicated above, and 2) they are followed immediately by the original documents in the mail.

The Owner reserves the right to reject any or all proposals or to waive any informalities in any proposal, or to accept any proposal which will best serve the interests of the State.

Sincerely,

Robert E. Strous Jr., for
Bureau of Remediation and Redevelopment

Attach
cc: Hank Kuehling - SCR



Department of Natural Resources
Division of Lands
Bureau of Facilities and Lands

Photovoltaic Array Purchase and Installation
Refuse Hideaway Landfill
Middleton, Wisconsin/Dane County

Department Project No. RRSP-B
October 20th, 2009

For the
State of Wisconsin
Department of Natural Resources
Bureau of Remediation & Redevelopment

By

The Department of Natural Resources
Division of Lands
Bureau of Facilities and Lands
101 South Webster Street
PO Box 7921 – LF/6
Madison Wisconsin 53707-7921

TABLE OF CONTENTS
Department Project Number RRSP-B

TC-1

DIVISION 1 – PROPOSAL AND CONTRACT REQUIREMENTS

Pages Thru

Invitation for Proposals	A-1
Title Page	1
Table of Contents	TC-1
Proposal Form	C-1
General Conditions and Requirements	GC-2
Specific Project Requirements	SR-1

DRAWINGS AND/OR SCHEDULES – Bound Herein

DRAWINGS – BOUND Separately

Number	Title
E-01	Electrical Site Plan
E-02	Array Plan and Block Diagram
E-03	Details

TC-1

PROPOSAL FORM

WISCONSIN DEPARTMENT OF NATURAL RESOURCES

Department Project Number RRSP-B

Engineer Assigned: Robert Strous

Photovoltaic Array Purchase and Installation
Refuse Hideaway Landfill
Middleton, Wisconsin/Dane County

PROPOSAL DEADLINE: November 5th, 2009

To the Wisconsin Department of Natural Resources:

We Next Energy, LLC DBA Full Spectrum Solar
of 100 S. Baldwin St, suite 101 Madison Dane WI 53703
Street City County State Zip

hereby agree to execute the proposed contract within ten (10) days of offering, and to provide all labor and materials required for the construction of the project designated above, for the prices hereinafter set forth, in accordance with the Contract Documents prepared by the Department of Natural Resources, dated 10/20/2009.

PROPOSAL: ALL WORK required to complete the project in accordance with the drawings and specifications,

for the sum of seventy five thousand, eight hundred ninety five Dollars (\$ 75,895.00).

option: substitute 44 Yingli 220 watt modules for 44 Sharp 224 watt modules (made in USA) - subtract \$1,100

Note: Also see attached alternate

Next Energy, LLC DBA Full Spectrum Solar
Firm Name

(608) 217-8774
Telephone Number

By Burke O'Neal
(Type or print name)

[Signature]
Signature

co-owner
Title

Date _____

ADDENDUM RECEIPT: We acknowledge receipt of the following addenda:

ADDENDUM NO. _____
ADDENDUM NO. _____

Date 11/2/09
Date _____

Received by Burke O'Neal
Received by _____

GENERAL CONDITIONS AND REQUIREMENTS

1. GENERAL

- A. These General Conditions and Requirements are applicable to all Divisions and Sections of the work included herein and the Contractor must abide by the requirements set forth.
- B. The contractor shall contact Digger's Hotline prior to starting any construction work at the site. 1-800-242-8511.

2. CONTRACT DOCUMENTS

- A. The contract documents include all items in the table of contents plus addenda, change orders, and written interpretations by the Architect/Engineer. The intention of the documents is to include all labor, materials and equipment necessary for the proper and timely execution of the work.

3. DEFINITIONS

The terms used in this contract are defined as follows:

- A. Owner: The Department of Natural Resources
- B. Project Manager: An agent appointed by the Owner who acts on behalf of the Owner and is delegated to manage the project and sign change orders, payment requests and other administrative matters related to the project.
- C. Architect/Engineer: An agent appointed by the Owner who is responsible for the projects design, preparation of proposal documents, and field supervision of the project.
- D. Contractor: The prime contractor who agrees to perform, and assumes responsibility for, all project requirements set forth in the contract documents. Where the subject of a statement or directive is implied, reference is to the Contractor.

4. SHOP DRAWINGS AND WORKMANSHIP

- A. Upon request, the Contractor shall submit shop drawings to the Architect/Engineer for review, to provide satisfactory evidence as to the kind and quality of materials. Approval of shop drawings by the A/E is for design concept and materials quality only; contractor is responsible for complete, working installation that meets intent of project unless otherwise specified.
- B. The Contractor shall perform all work in a professional workmanlike manner.

5. CONTRACTOR'S TITLE TO MATERIALS

- A. No materials or supplies for the work shall be purchased by the Contractor or by any subcontractor subject to any chattel mortgage, under a conditional sale contract, or any other agreement by which an interest is retained by the seller.

6. "OR EQUAL" CLAUSE

- A. Whenever a material, article or piece of equipment is identified on the drawings or in the specifications by reference to type, or to manufacturer's or vendor's name, trade name, or catalog number, it is intended to establish a standard of quality; and any material, article, or equipment of other type, or other manufacturers and vendors which will perform adequately the duties imposed by the general design will be considered for approval provided the material, article or equipment so proposed is, in the opinion of the Architect/Engineer, of equal substance and function.

- B. No compromise in quality level, however small, is acceptable.

- C. No request for approval of "or equal" materials will be entertained except from the prime Contractor. Any costs growing out of the approval of "or equal" items shall be the responsibility of the Contractor and shall not devolve upon the Owner, the Architect/Engineer or other contractors.

- D. The use of materials or equipment other than those specified, or approved equal by the Architect/Engineer, shall constitute a violation of the contract, and the Architect/Engineer may require the removal of such materials or equipment and have them replaced with the specified materials or equipment at no additional expense to the Owner.

7. PATENTS AND ROYALTIES

- A. If the Contractor uses any design, device or material covered by letters, patent or copyright, the contract prices shall include all royalties or costs arising from the use of such design, device or materials.

8. SURVEYS, PERMITS, REGULATIONS AND TAXES

- A. Unless otherwise indicated, the Owner will furnish to the Contractor all site topography and property surveys necessary for the execution of the work.
- B. The Contractor shall procure all federal, state and local permits, licenses and approvals necessary for the execution of this contract.
- C. The Contractor shall pay all sales, consumer, use and other similar taxes required by law.
- D. Work under this contract shall be in compliance with all applicable state laws, codes and regulations.

9. PROTECTION OF WORK AND PROPERTY

- A. The Contractor shall at all times safely guard the work and the state's property from injury or loss in connection with this contract. The Contractor shall replace or make good any such damage, loss or injury caused by his work.
- B. In case of an emergency, which threatens loss or injury of property, or safety of life, the Contractor will be allowed to act, without previous instructions from the Owner, in a diligent manner. The Contractor shall notify the Architect/Engineer immediately thereafter. Any claim for compensation by the Contractor due to such extra work shall be promptly submitted to the Architect/Engineer for approval.

- C. Should the Contractor encounter subsurface or latent conditions at the site differing from those shown on the drawings or indicated in the specifications, the Contractor shall immediately give notice to the Architect/Engineer of such conditions before they are disturbed. The Architect/Engineer will investigate the conditions, and will make such changes as found necessary. Any increase or decrease in cost resulting from such changes will be incorporated into the contract by change order.

10. INSURANCE

- A. The Contractor shall procure and shall maintain during the life of this contract the following insurance:

- 1) Workmen's Compensation, including Employer's Liability Insurance for employees not otherwise protected;

2) Contractor's Public Liability Insurance in the amount of not less than \$250,000 for injuries, including accidental death, to any one person, and subject to the same limit for each person, in an amount not less than \$500,000 on account of one accident;

3) Contractor's Property Damage Insurance in the amount of not less than \$100,000 or a combined single limit of at least \$500,000;

4) Comprehensive Automobile Liability Insurance for limits of not less than: bodily injury \$250,000/\$500,000; property damage \$100,000 or a combined single limit of at least \$500,000.

B. The insurance provided under this article shall provide the indicated coverage for the Contractor and his subcontractors, and shall hold the Owner and the A/E harmless against all claims resulting from the contractors work. The obligations of the Contractor under this article shall not extend to the liability of the Architect/Engineer, agents or employees thereof arising out of the plans and specifications, or the giving of or the failure to give directions or instructions by the Architect/Engineer, agents or employees.

11. RIGHT OF OWNER TO TERMINATE CONTRACT

A. In the event that any of the provisions of this contract are violated by the Contractor, or by his subcontractors, the Owner may serve written notice upon the Contractor of its intention to terminate the contract, such notice to contain the reason(s) for such intention. Unless within ten (10) days after the serving of such notice upon the Contractor, such reason(s) shall cease and satisfactory arrangement or correction be made, the contract shall, upon the expiration of said ten (10) days, cease and terminate.

B. In the event of any such termination, the Owner shall immediately serve notice thereof upon the Contractor, and the Owner may take over the work and prosecute the same to completion by contract or force account at the expense of the Contractor. The Contractor shall be liable to the Owner for any excess cost, and in such event the Owner may take possession of and utilize in completing the work, such materials as may be on the site of the work and necessary therefor.

12. SPECIAL SITE CONDITIONS - USE OF THE PREMISES

A. Confine all operations, equipment, apparatus, and storage of materials to the immediate area of work to the greatest possible extent. Contractor shall ascertain, observe and comply with all rules and regulations in effect on the project site, including, but not limited to parking and traffic regulations, use of walks, security restrictions, hours of allowable ingress and egress, and traffic within or to the project site.

13. TEMPORARY FACILITIES

A. Water, electricity, toilet facilities, and telephone service may not be available on the property. Contractor to make their own arrangements for any of these facilities as required.

B. No temporary fence is required except as necessary to meet applicable safety regulations.

14. PROTECTION

A. Work shall comply with the Wisconsin Administrative Code, Chapter ILHR 32, Safety and Health Standards for Public Employees.

B. Provide protection against weather and construction operations for existing equipment and all other improvements in and around the construction site.

15. STORM WATER MANAGEMENT AND EROSION CONTROL

A. The "Wisconsin Construction Site Best Management Practice Handbook," by the Wisconsin Department of Natural Resources, Bureau of Wastewater Management will be basis for storm water management and erosion control on this project.

B. The Contractor shall follow applicable guidelines for storm water management and erosion control as directed by the Architect/Engineer. A detailed plan for the accomplishment of this objective will be prepared by the Contractor prior to the preconstruction meeting, and must meet the approval of the Architect/Engineer before construction can commence.

16. CLEANING

A. Contractor shall keep premises free of accumulations of surplus materials and rubbish caused by his operation, and shall thoroughly clean premises upon completion.

17. METHOD OF PAYMENT

A. *In lieu of a performance bond, no partial payments will be made during the course of the project. Payment will be made in one lump sum for the total project when all contract obligations have been met to the satisfaction of the Project Engineer.*

B. *The making of final payment shall constitute a waiver of all claims by the state except those arising from: any unsettled lien; faulty or defective work; failure to comply with contract requirements; the terms of any guarantees required by the contract documents. The acceptance of final payment shall constitute a waiver of all claims by the Contractor.*

18. NONDISCRIMINATION/AFFIRMATIVE ACTION

A. *The contractor shall follow state accepted nondiscrimination and affirmative action policies while pursuing work under this contract*

GC-2

SPECIFIC PROJECT REQUIREMENTS

1. GENERAL

A. The Photovoltaic Array shall be installed by a Master Electrician as licensed in the State of Wisconsin.

B. The Photovoltaic Array shall be installed by a NABCEP (North American Board of Certified Energy Practitioners) certified photovoltaic installer.



FULL SPECTRUM S O L A R

100 S. Baldwin Street, Suite 101
Madison, WI 53703
608-284-9495 tel/fax
info@fullspectrumssolar.com
www.fullspectrumssolar.com

SOLAR ENERGY SYSTEM QUOTATION

CUSTOMER: Robert Strouss WI Department of Natural Resources 101 S. Webster Street Madison WI 53707-7921 W: H262-673-0807 F:	ENGINEER: Burke O'Neal QUOTE NUMBER: 9927 TERMS: LEAD TIME: rack, inverter 1-2 months VALID FOR: 30 days SYSTEM TYPE: Photovoltaic	DATE: 2009/11/4
--	---	------------------------

SYSTEM DESCRIPTION: Turnkey 9.9 kW installation with gravel base, instead of concrete foundation *

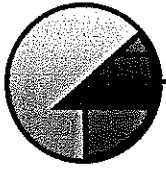
QTY	DESCRIPTION
44	Sharp 224-watt PV modules - 25 year power output warranty
1	Direct Power and Water ballasted racks - 35 degree pitch to the south, 1' clearance
1	Excavation, gravel under ballasted racks *
1	Fronius IG 11.4-3 Plus 240-delta inverter, DC/AC Disconnect, LED display
1	Electrical transition box with waterproof cord grip connectors
1	AC lightning arrestor and DC lightning arrestors
1	Cables for PV circuits, wire not line-itemed, PVC not line-itemed, fittings, etc.
1	Equipment to rebuild service, external AC Disconnect to meet MG&E Buyback
1	Trenching as specified
850	1" Sch. 80 PVC
1	Shipping
3	Quazite PG1730 BB30
3	Quazite PG1730 HAOO
2550	#3/0 THWN
850	#4 THWN
850	2" Sch. 80 PVC

* Will remove soil to clay cap and then place 18"-24" #2 stone with 1-1/2" TB top to create base for ballasted rack. It will be necessary to control the height of prairie growing directly in front of each row of modules.

NOTES: Installation price given includes all labor required to install and bring system on line. This includes handling of electrical permit, electrical inspection, and assisting with Focus Reward reservation and confirmation paperwork and utility paperwork.

Total job price	\$92,298.00
Estimated Focus Reward	
Est. Focus Reward	
TOTAL (LESS REBATE)	\$92,298.00
(Est. net final purchaser price after reward)	

Focus on Energy will normally pay the reward amount within 60 days of the date of receipt of final building inspection and claim form. This effectively means that the customer must pay the total job price and then wait about 60 days for the reward check from Focus on Energy.



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SOLAR ENERGY SYSTEM QUOTATION

CUSTOMER: Robert Strouss WI Department of Natural Resources 101 S. Webster Street Madison WI 53707-7921 W: H:262-673-0807 F:	ENGINEER: Burke O'Neal QUOTE NUMBER: 9928 TERMS: LEAD TIME: VALID FOR: 30 days SYSTEM TYPE: NS	DATE: 2009/11/4
---	---	------------------------

SYSTEM DESCRIPTION: Option: Reset existing electrical equipment on new platform (if contracted with other work)

QTY	DESCRIPTION
1	Treated wood platform for transformers
1	Electrical conduit, wire, etc.
1	All-terrain forklift rental

NOTES: Installation price given includes all labor required to install and bring system on line. This includes handling of electrical permit, electrical inspection, and assisting with Focus Reward reservation and confirmation paperwork and utility paperwork.

Total job price	\$1,775.00
Estimated Focus Reward	
Est. Focus Reward	
TOTAL (LESS REBATE)	\$1,775.00
(Est. net final purchaser price after reward)	

Focus on Energy will normally pay the reward amount within 60 days of the date of receipt of final building inspection and claim form. This effectively means that the customer must pay the total job price and then wait about 60 days for the reward check from Focus on Energy.

Strous Jr, Robert E - DNR

From: Strous Jr, Robert E - DNR
Sent: Thursday, November 12, 2009 2:10 PM
To: Burke O'Neal
Cc: 'Henderson, Dave'; 'GENE.MOE@aecom.com'; Kuehling, Harlan H - DNR
Subject: Refuse Hideaway, Modifications to Specifications

Burke,

The following are revisions to the specifications. As we discussed, please provide two proposals to address the original project specifications, with the following modifications:

- The DPW Ballasted Rack is acceptable, please include the 18 inch clearance option we discussed.
- Foundation for the array will be the gravel trench, 10 inches deep at the northernmost edge, tapering to level with the ground at the southernmost edge, with the bottom of the trench level or slightly sloping down gradient. The trench will be lined with geotextile (weed control) and filled with 1 1/2 inch stone (clear). The footprint of each trench will be sufficient to allow for a 1 foot clearance above the array and at least 3 feet below the array. The two trenches will be at least 15 feet apart (including the 1 and 3 foot clearance).
- The ballasted rack will be set at 36 degrees and will not be adjusted routinely.
- Repair of the transformer pedestal will be included in one of the proposals.
- Pedestal repair, trenching and foundation work will commence upon notice to proceed, and completed no later than Dec. 15 (weather permitting).
- Installation of the complete array will commence upon delivery, weather permitting.
- Any soil generated by the excavation will be placed as directed by the DNR Project Manager. Disrupted soil will be seeded and mulched.
- As discussed; please split the proposals into two balanced efforts (for contracting purposes).

Please let me know if you have any questions.



ROBERT E. STROUS JR

Chief, Fiscal & Information Technology Section
Bureau for Remediation & Redevelopment
Wisconsin Department of Natural Resources

(☎) phone: (608) 266-2699

(☎) fax: (608) 267-7646

(✉) e-mail: Robert.StrousJr@Wisconsin.gov



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Madison, WI 53703
608-284-9495 tel/fax
info@fullspectrumssolar.com
www.fullspectrumssolar.com

SOLAR ENERGY SYSTEM QUOTATION

CUSTOMER: Robert Strous WI Department of Natural Resources	ENGINEER: Burke O'Neal
W:	QUOTE NUMBER: 9956 DATE: 2009/11/4
H:	TERMS:
F:	LEAD TIME: rack, inverter 1-2 months
	VALID FOR: 30 days
	SYSTEM TYPE: Photovoltaic

SYSTEM DESCRIPTION: 9.9 kW Photovoltaic Array

QTY	DESCRIPTION
44	Sharp 224-watt PV modules - 25 year power output warranty
1	Direct Power and Water ballasted racks - 35 degree pitch to the south, 18" clearance
1	Fronius IG 11.4-3 Plus 240-delta inverter, DC/AC Disconnect, LED display
1	Electrical transition box with waterproof cord grip connectors
1	Cables for PV circuits, wire not line-itemed, PVC not line-itemed, fittings, etc.
1	AC lightning arrestor and DC lightning arrestors
1	Cables for PV circuits, wire not line-itemed, PVC not line-itemed, fittings, etc.
1	Shipping

NOTES: Installation price given includes all labor required to install and bring system on line. This includes handling of electrical permit, electrical inspection, and assisting with Focus Reward reservation and confirmation paperwork and utility paperwork.

Total job price	\$57,761.50
Estimated Focus Reward	
Est. Focus Reward	
TOTAL (LESS REBATE)	\$57,761.50
(Est. net final purchaser price after reward)	

Focus on Energy will normally pay the reward amount within 60 days of the date of receipt of final building inspection and claim form. This effectively means that the customer must pay the total job price and then wait about 60 days for the reward check from Focus on Energy.



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SOLAR ENERGY SYSTEM QUOTATION

CUSTOMER: Robert Strous WI Department of Natural Resources		ENGINEER: Burke O'Neal	
		QUOTE NUMBER: 9958	DATE: 2009/11/4
		TERMS:	
W:	H:	LEAD TIME: rack, inverter 1-2 months	
		VALID FOR: 30 days	
		SYSTEM TYPE: Photovoltaic	

SYSTEM DESCRIPTION: Foundation, trenching, wiring, new transformer support, infrastructure for PV system

QTY	DESCRIPTION
1	Treated wood platform for transformers
1	Electrical conduit, wire, etc.
1	All-terrain forklift rental
850	2" Sch. 80 PVC
850	#4 THWN
2550	#3/0 THWN
1	Shipping
1	Equipment to rebuild service, external AC Disconnect to meet MG&E Buyback
1	Trenching as specified
3	Quazite PG1730 BB30
3	Quazite PG1730 HAOO

NOTES: Installation price given includes all labor required to install and bring system on line. This includes handling of electrical permit, electrical inspection, and assisting with Focus Reward reservation and confirmation paperwork and utility paperwork.

Total job price	\$36,401.50
Estimated Focus Reward	
Est. Focus Reward	
TOTAL (LESS REBATE)	\$36,401.50
(Est. net final purchaser price after reward)	

Focus on Energy will normally pay the reward amount within 60 days of the date of receipt of final building inspection and claim form. This effectively means that the customer must pay the total job price and then wait about 60 days for the reward check from Focus on Energy.

Standard Distributed Generation Application Form
(Generation 20 kW or less)

PSC-6027 R(03-04-04)

Distributed By

Name & Address:
Jeff Ford
MG + E
P.O. Box 1231
Madison, WI 53701-1231

Supplied By

Name & Address
Public Service Commission of Wisconsin
P. O. Box 7854
Madison, WI 53707-7854

1. Contact Information -- The applicant is the party that is legally responsible for the generating system

Applicant's Last: PANZER First: TIM Middle: J

Applicant's Mailing Address:
WDNR
PO Box 7921 - RR/5
Madison WI 53707

Applicant's Phone Number: (608) 267-2465 E-mail Address: timothy.panzer@wisconsin.gov

Emergency Contact Numbers:
Responsible Party's Day Phone: (608) 275-3286
Responsible Party's Evening Phone: (608) 267-2465
Responsible Party's Weekend Phone: (608) 275-3286

2. Location of the Generation System

Street Address:
DNR Refuse Hideaway Landfill
7562 USH 14
Middleton WI 53562

Latitude - Longitude: (i.e. 49° 32' 06" N - 91° 64' 18" W) - optional
County: Dane

3. Electric Service Account Number:
13158845

4. Applicant's Ownership Interest in the Generation System
 Owner Co-owner Lease Other

5. Primary Intent of the Generation System
 Onsite use of power, or net energy billing Commercial power sales to a third party

6. Electricity Use, Production and Purchases

(a) Anticipated annual electricity consumption of the facility or site: 48,000 (kWh)/yr.
 (b) Anticipated annual electricity production of the generation system: 12,300 (kWh)/yr.
 (c) Anticipated annual electricity purchases (i.e., (a) minus (b)) 35,700 (kWh)/yr.
 * Value will be negative if there are net sales to the Public Utility.

7. Installing Contractor Information

Contractor's Last Name: O'Neal First Name: Burke Middle Initial:

Name of Firm: Full Spectrum Solar

Contractor's Phone Number: (608) 284-9495 E-mail Address: burke@fullspectrum solar.com

Mailing Address: 100 S. Baldwin St., Suite 101
Madison, WI 53703

8. Requested In-Service Date

3/10/10

9. Provide One-Line Schematic Diagram of the System:

Schematic is Attached Number of pages: 1

10. Generator/Inverter Information

Manufacturer: Fronius Model No.: IG 11.4-3 Plus

Version No.: Serial No.:

Generation Type (check one): Single Phase Three Phase Synchronous Induction Inverter Other:

Name Plate AC Ratings (check one): 10 kW kVA 240 volts Δ

Primary Energy Source: PV Modules

Note: If there is more than one generator and/or inverter, attach an additional sheet describing each.

11. Site Plan, Showing Location of the External Disconnect Switch (attach additional sheets as needed)

see attached

12. Liability Insurance

Carrier	State of Wisconsin	Limits	
Agent Name		Phone Number	() - -

The Applicant, (Site Owner or Operator, if different) shall provide a Certificate of Insurance, both demonstrating that this liability insurance is in place.

13. Design Requirements

- (a) Has the proposed distributed generation paralleling equipment been certified? Y N
- (b) If not certified, does the proposed distributed generator meet the operating limits defined Wis. Admin. Code chapter PSC 1189? Y N

For items 13(a) and 13(b), if your answer is yes, please furnish details (e.g., copies of manufacturer's specifications). If you do not know the answer, it is recommended you contact the equipment manufacturer for the answer and provide the same with the completed application.

14. Other Comments, Specification and Exceptions (attach additional sheets if needed)

15. Applicant and Installer Signature

To the best of my knowledge, all the information provided in this Application Form is complete and correct.

Applicant Signature	Date
	4/15/10
Installer Signature	Date
	3/4/10



**WISCONSIN DEPARTMENT OF
ADMINISTRATION**

**JIM DOYLE
GOVERNOR**

**MICHAEL L. MORGAN
SECRETARY**

Division of Enterprise Operations
Bureau of State Risk Management
Post Office Box 77008
Madison, WI 53707-1008
Voice (608) 267-7395
Fax (608) 264-8250

Date: May 6, 2010

To: MG&E
PO Box 1231
Madison, WI 53701

Re: Certificate of Protection in Lieu of an Insurance Policy

For: Installation of 2 Photovoltaic Arrays and associated equipment at the
Refuse Hideaway Landfill, 7562 US Highway 14, Middleton, WI 53562

To Whom It May Concern:

This is to certify that the Wisconsin Department of Natural Resources is protected by the State of Wisconsin Self-Funded Liability and Property Programs. Section 20.505 (2) (k), Wisconsin Statutes, provides funds to pay liability and property claims. In addition, section 895.46 provides that the state will pay judgments taken against state officers or employees for acts carried out while the officers or employees were acting within the scope of their employment.

Please accept this as evidence of protection for applicable liability claims brought against the state, its officers or employees and damage to property for which the state may be responsible. If you need any further assistance, please feel free to contact this office.

This certificate applies only to state officers, agents, and employees; it does not apply to independent contractors; and issuance of the certificate does not waive any duty of a contractor to acquire liability insurance.

Sincerely,

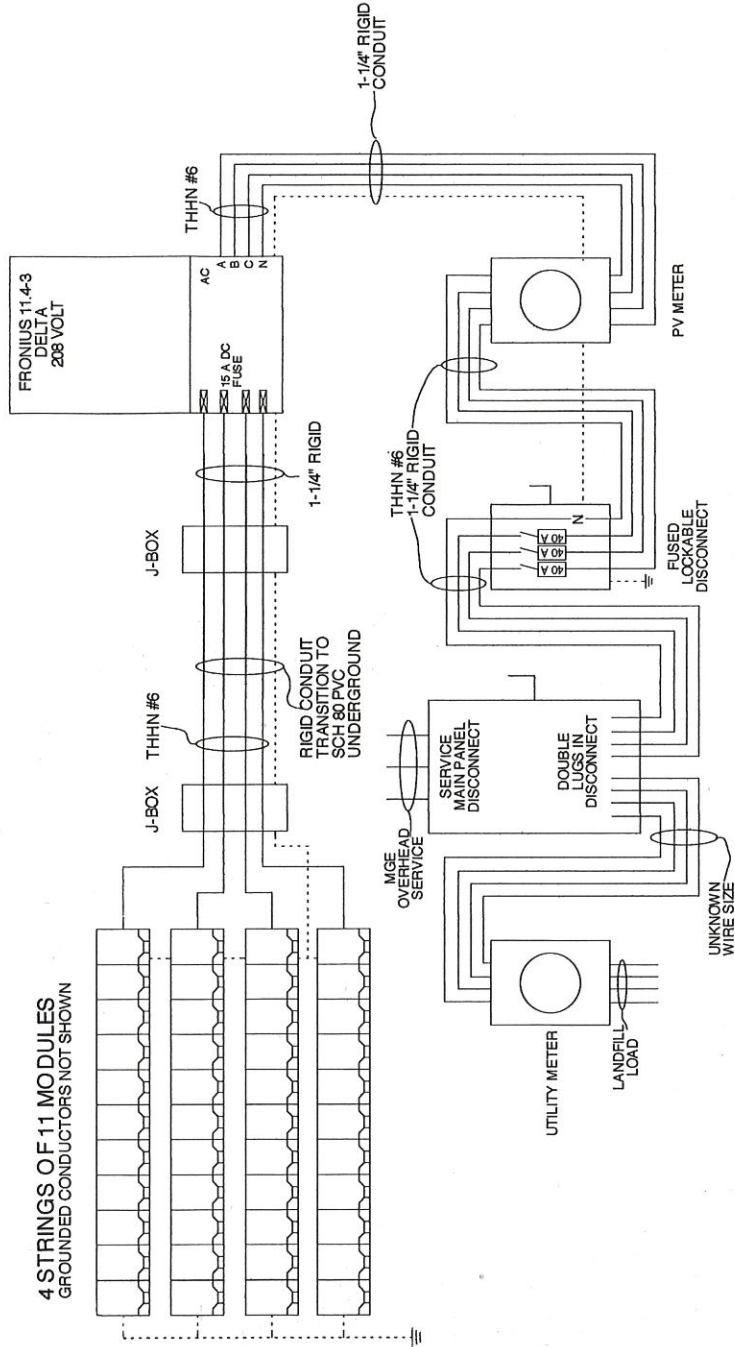
Sherry Rowin KJK
Sherry Rowin
Property & Liability Manager
Bureau of State Risk Management

cc: Tim Panzer, DNR

DNR LANDFILL

44 - SHARP 224 WATT
 MODULE STRING
 Voc - 402.6 V
 Vmp - 322.1 V
 Isc - 6.23 A
 Imp - 7.66 A

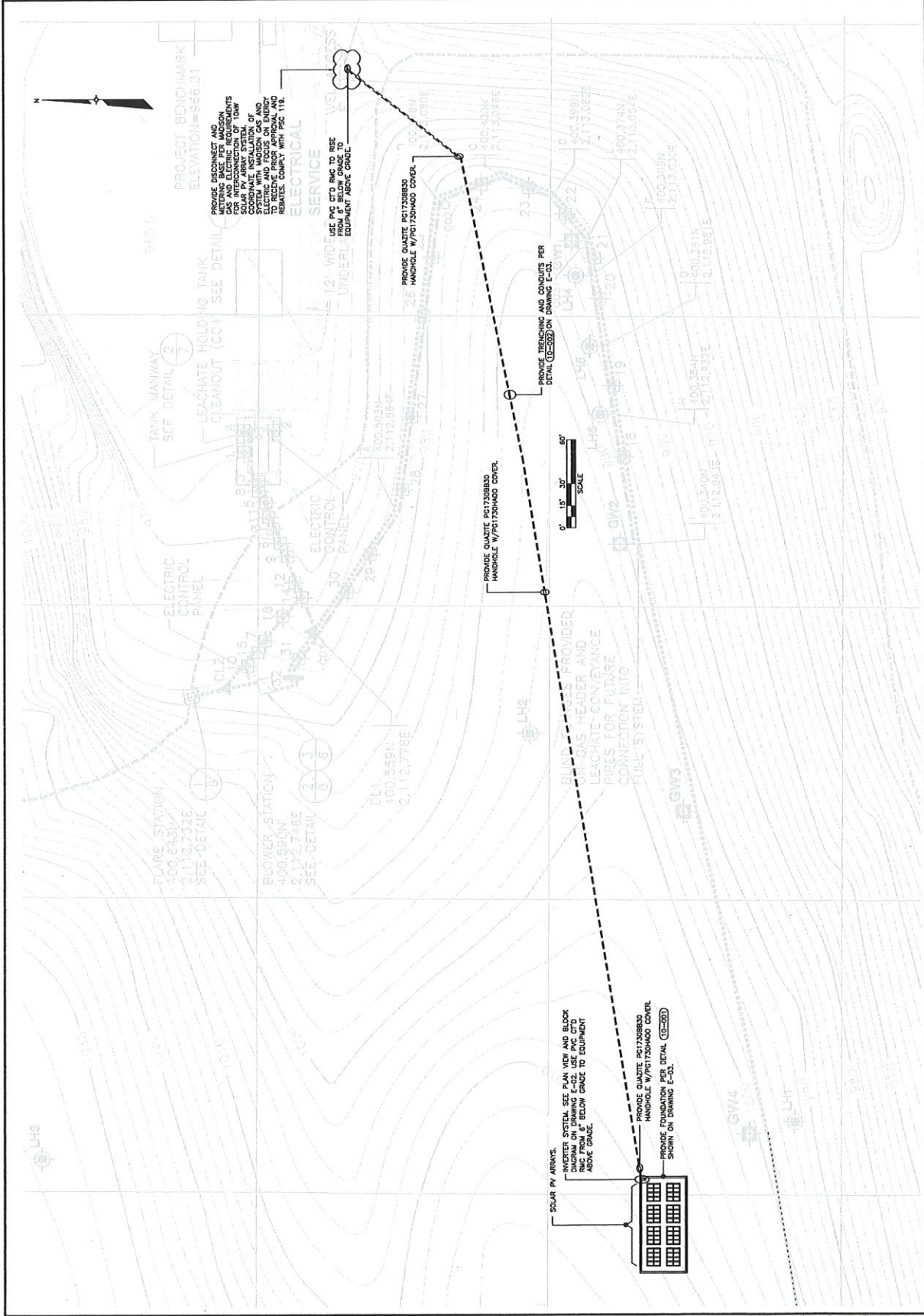
4 STRINGS OF 11 MODULES
 GROUNDED CONDUCTORS NOT SHOWN



FULL SPECTRUM SOLAR 100 S. BALDWIN ST., SUITE 101 MADISON, WI 53703 (608) 284-9495		SITE: DNR LANDFILL ENGINEER:		DRAWING: ELECTRICAL ONELINE PROJECT: DNR LANDFILL	
SCALE:		NOTES:		DESCRIPTION:	
DATE:		JOB#:		TYPE:	
REV:		DATE:		REV:	

DATE	SEP 2009	PROJECT NO	107343
FILE NO	E-01.DWG	SHEET NO	000
DRAWING NO	E01	STATE OF WISCONSIN \ DNR	
PHOTOVOLTAC ARRAY INSTALLATION			
ELECTRICAL SITE PLAN			

AECOM



NO	REV	DATE	DESCRIPTION
001		10/12/2009	ISSUED FOR PERMITS
002		10/12/2009	REVISED PER REVIEWS
003		10/12/2009	REVISED PER REVIEWS
004		10/12/2009	REVISED PER REVIEWS
005		10/12/2009	REVISED PER REVIEWS

App/	CHK	DES	DRW
001	001	001	001
002	002	002	002
003	003	003	003
004	004	004	004
005	005	005	005

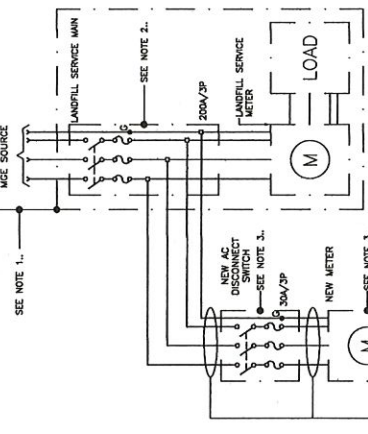
SHERIDAN
WISCONSIN
PHOTOVOLTAIC ARRAY INSTALLATION

DATE	SEPTEMBER 2009
PROJECT NO	107343
FILE NO	E-0230A
SHEET NO	000
DRAWING NO	

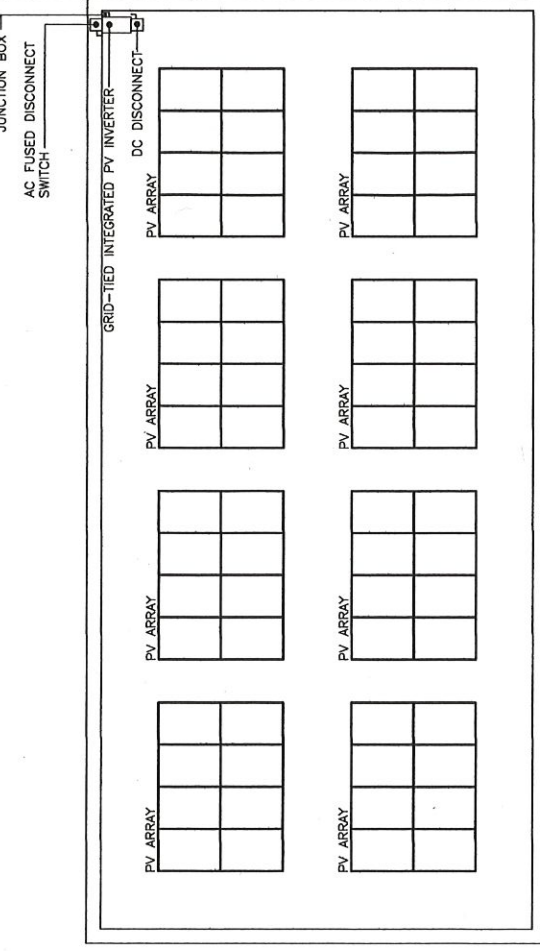
STATE OF WISCONSIN
PHOTOVOLTAIC ARRAY INSTALLATION
REFUSE HIDEAWAY LANDFILL

E-02

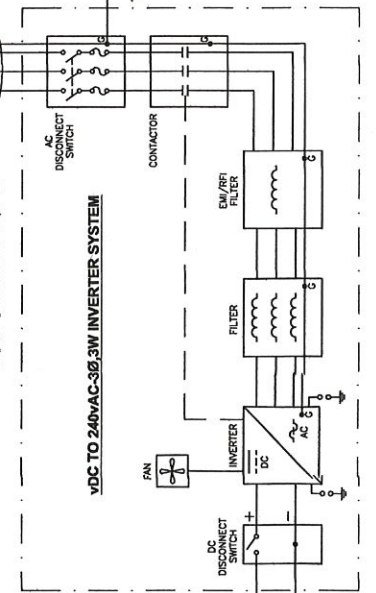
EXISTING REFUSE HIDEAWAY LANDFILL ELECTRICAL SERVICE



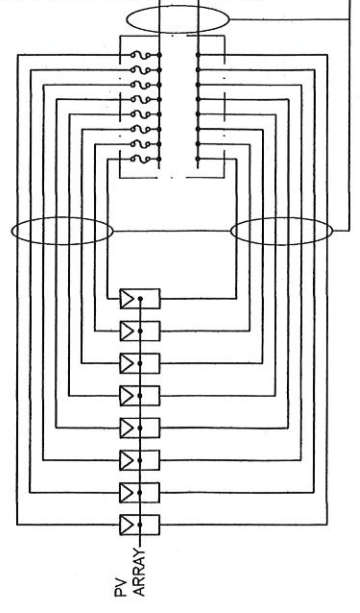
GRID-TIED INTEGRATED PV INVERTER



vDC TO 240VAC-3Ø 3W INVERTER SYSTEM



ARRAY AND INVERTER SYSTEMS BLOCK DIAGRAM



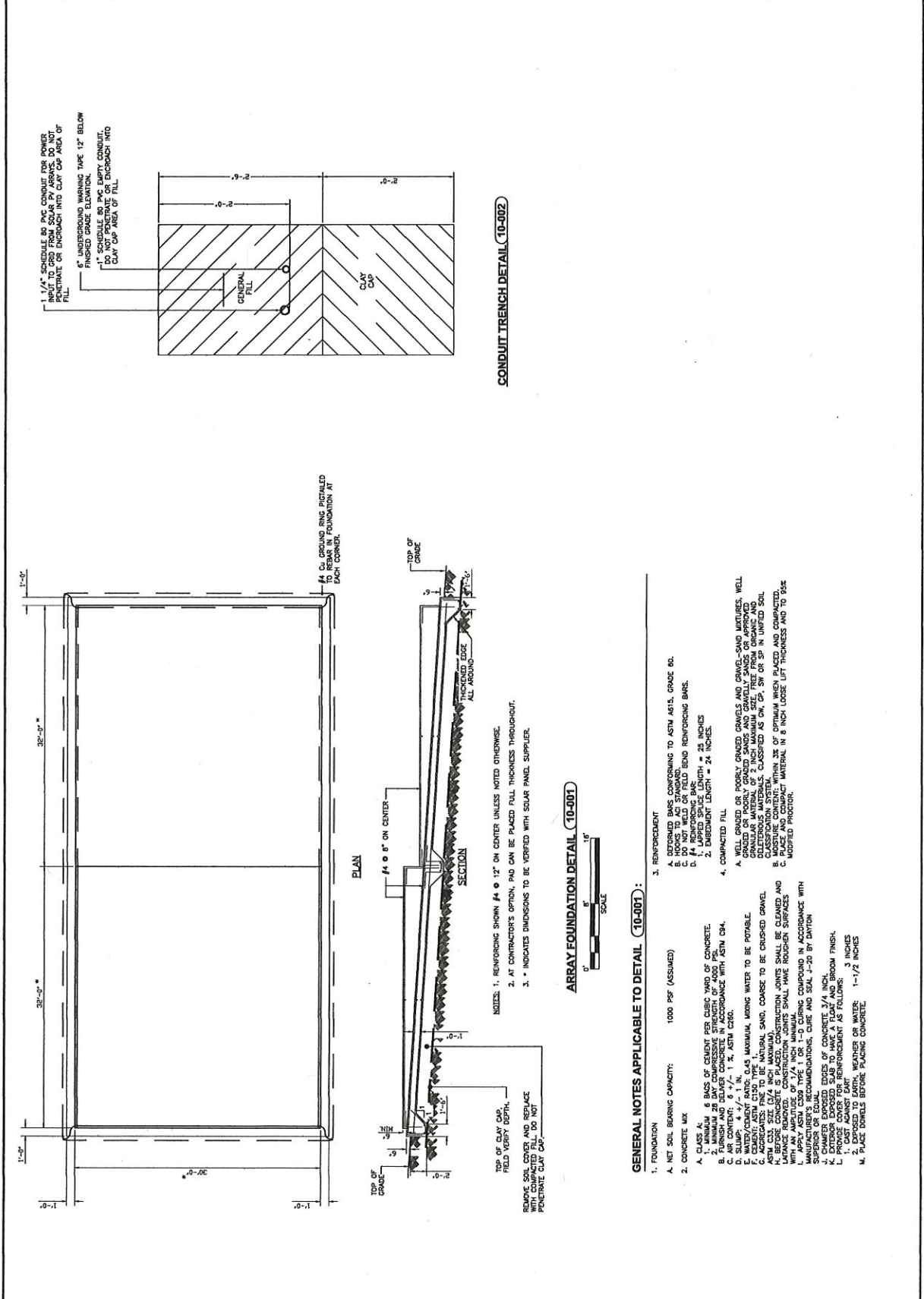
- NOTES:**
- EXISTING SERVICE IS A GROUNDING 240VAC DELTA SERVICE SERVICE GROUNDING THROUGH CENTER TAPPED COIL OF ONE PHASE SERVICE NOT TO BE USED FOR PHOTOVOLTAIC SERVICE. PHOTOVOLTAIC SERVICE IS TO BE FED FROM A PHOTOVOLTAIC SERVICE BUS THAT OVERHEAD LATERAL IS FED FROM PHOTOVOLTAIC SERVICE BUS. PHOTOVOLTAIC SERVICE IS TO BE GROUNDING THROUGH PHOTOVOLTAIC SERVICE BUS TO PHOTOVOLTAIC SERVICE BUS. PHOTOVOLTAIC SERVICE IS TO BE GROUNDING THROUGH PHOTOVOLTAIC SERVICE BUS TO PHOTOVOLTAIC SERVICE BUS. PHOTOVOLTAIC SERVICE IS TO BE GROUNDING THROUGH PHOTOVOLTAIC SERVICE BUS TO PHOTOVOLTAIC SERVICE BUS.
 - NEW LANDFILL MAIN WITH DUAL LUGS PER PHASE FOR LANDFILL SERVICE AND PV ARRAY INPUT TO GRID.
 - LOCATE PV ARRAY METER AND DISCONNECT AS CLOSE TO EXISTING LANDFILL SERVICE AS POSSIBLE.

DATE	SEPTEMBER 2009
PROJECT NO.	107243
FILE NO.	E-03
SHEET NO.	003
DRAWING NO.	E-03

STATE OF WISCONSIN \ DNR
PHOTOVOLTAIC ARRAY INSTALLATION
REFUSE HIDEWAY LANDFILL/MIDDLETON, WI



NO	REVISIONS	DATE	BY	CHK



CONDUIT TRENCH DETAIL (10-002)

ARRAY FOUNDATION DETAIL (10-001)

GENERAL NOTES APPLICABLE TO DETAIL (10-001) :

- 1. FOUNDATION
- 2. CONCRETE MIX
 - A. NET SOIL BEARING CAPACITY: 1000 PSF (ASSUMED)
 - B. CLASS A
 - C. MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI
 - D. AIR CONTAINING 6 TO 11% AIR BY WEIGHT
 - E. SUMP: 4" ± 1/8"
 - F. REINFORCING BARS: 4#4 MAXIMUM, USING WATER TO BE POTABLE
 - G. AGGREGATES: FINE TO BE NATURAL SAND, COARSE TO BE CRUSHED GRAVEL
 - H. BEFORE CONCRETE IS PLACED, CONSTRUCTION JOINTS SHALL BE CLEANED AND LANTAGE REMOVED. CONSTRUCTION JOINTS SHALL HAVE ROUGHEN SURFACES
 - I. APPLY ASTM C908 TYPE 1 OR 1-D CURING COMPOUND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CURE AND SEAL 4-20 BY DAYTON
 - J. CHAMFER EXPOSED EDGES OF CONCRETE 3/4" INCH
 - K. PROVIDE PROTECTION FOR THE FOUNDATION AS FOLLOWS: 3 INCHES
 - L. CAST AGAINST EARTH
 - M. PLACE BORDERS BEFORE PLACING CONCRETE: 1-1/2 INCHES

- 1. REINFORCEMENT
 - A. DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60.
 - B. HOOKS TO ALL STANDARDS.
 - C. ALL BARS TO BE WELDED BEND REINFORCING BARS.
 - D. #4 REINFORCING BARS.
 - E. LAPPED SPICE LENGTH = 24 INCHES
 - F. DEVELOPMENT LENGTH = 24 INCHES
- 2. COMPACTED FILL
 - A. WELL GRADED OR POORLY GRADED GRAVELS AND GRAVEL-SAND MIXTURES, WELL SORTED AND FREE FROM ORGANICS AND GRANULAR MATERIAL OF 2 INCH MAXIMUM SIZE, FREE FROM ORGANICS AND OLIGERIOUS MATERIALS, CLASSIFIED AS GW, GR, SW OR SP IN UNIFIED SOIL CLASSIFICATION SYSTEM.
 - B. MOISTURE CONTENT WITHIN 3% OF OPTIMUM WHEN PLACED AND COMPACTED.
 - C. ALL COMPACTED MATERIAL SHALL BE 8 INCH LOOSE LIFT THICKNESS AND TO 95% MODIFIED PROCTOR.

- 1. REINFORCING SHOWN #4 @ 12" ON CENTER UNLESS NOTED OTHERWISE.
- 2. AT CONTRACTOR'S OPTION, PAD CAN BE PLACED FULL THICKNESS THROUGHOUT.
- 3. * INDICATES DIMENSIONS TO BE VERIFIED WITH SOLAR PANEL SUPPLIER.

1/4" SCHEDULE 40 PVC CONDUIT FOR POWER PENETRATING OR ENDOUGH INTO CLAY CAP AREA OF FILL

6" UNDERGROUND WARNING TAPE 12" BELOW

1" SCHEDULE 40 PVC EMPTY CONDUIT DO NOT PENETRATE OR ENDOUGH INTO CLAY CAP AREA OF FILL

6" RADIUS RING DETACHED TO CLEAR IN FOUR CORNERS AT EACH CORNER

TOP OF CLAY CAP FIELD VERY DEPTH. REMOVE SOIL COVER AND SURFACE WITH COMPACTED FILL. DO NOT PENETRATE CLAY CAP.